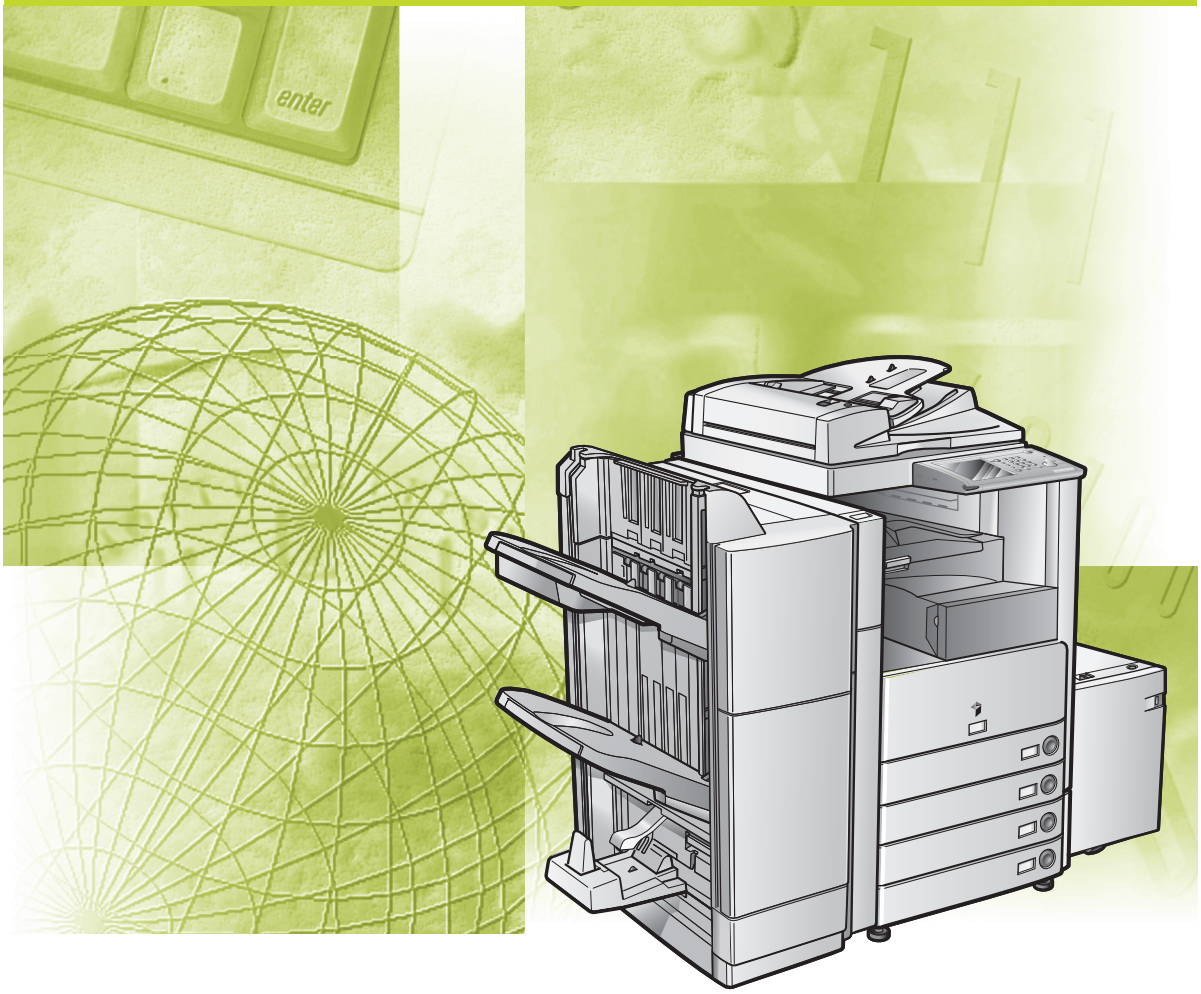
Canon

imageRUNNER

3245/3245i
3235/3235i
3230/3225

Getting Started



Please read this guide before operating this product.
After you finish reading this guide, store it in a safe place for future reference.

ENG

imageRUNNER 3245/3245i 3235/3235i 3230/3225

Getting Started

Manuals for the Machine

The manuals for this machine are divided as follows. Please refer to them for detailed information.

The manuals supplied with optional equipment are included in the list below. Depending on the system configuration and product purchased, some manuals may not be needed.

Guides with this symbol are printed manuals.

Guides with this symbol are included on the accompanying CD-ROM. (See footnote on the next page.)

- **Learn How to Use Your Machine**
  The Tutorial CD is a teaching aid, designed to help you learn the various functions of the machine.

Tutorial CD

- **Operations and Settings after the Machine Is Installed**

Getting Started (This Document)

- **Quick Reference for Basic Operations**

Easy Operation Guide

- **Important Notes for Handling the Machine**

Troubleshooting

- **Windows Printer Driver Installation and Instructions**

Printer Driver Installation Guide

- **Mac Printer Driver Installation and Instructions**
  The Mac UFR II Driver Guide and the Mac PS Driver Guide

Mac Printer Driver Online Manual

- **Windows Fax Driver Installation and Instructions**

Fax Driver Installation Guide

- **Windows Network ScanGear Installation and Instructions**

Network ScanGear Installation Guide

- **Instructions for Operating the Machine**
- **Before You Start Using This Machine**
- **Problem Solving**
- **Copy**
- **Send/Fax**
- **Mail Box**
- **Print**
- **Web Access**
- **Network**
- **Remote UI**
- **MEAP/SSO**
- **Security**
- **Software**

e-Manual

- To view the manual in PDF format, Adobe Reader/Acrobat Reader/Acrobat is required. If Adobe Reader/Acrobat Reader/Acrobat is not installed on your system, please download it from the Adobe Systems Incorporated website (http://www.adobe.com).
- The machine illustration on the cover may differ slightly from your machine.

How This Manual Is Organized

Chapter 1 Flow of Settings

Chapter 2 Using Optional Functions that Require License Registration

Chapter 3 Before Connecting to a Network

Chapter 4 Settings Common to the Network Protocols

Chapter 5 Using a TCP/IP Network

Chapter 6 Using a NetWare Network (Windows)

Chapter 7 Using a NetBIOS Network

Chapter 8 Using an AppleTalk Network (Macintosh)

Chapter 9 Before Using the Fax Function

Chapter 10 Before Printing from Computers

Chapter 11 Before Sending Faxes from Computers

Chapter 12 Before Using the Remote Scan Function

Chapter 13 Managing the Machine from a Computer

Chapter 14 Appendix

Includes the index.

Considerable effort has been made to ensure that this manual is free of inaccuracies and omissions. However, as we are constantly improving our products, if you need an exact specification, please contact Canon.

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Preface

Thank you for purchasing the Canon imageRUNNER 3245/3245i/3235/3235i/3230/3225. Please read this manual thoroughly before operating the product to familiarize yourself with its capabilities, and to make the most of its many functions. (For detailed descriptions of the various functions of the machine, see the e-Manual.) After reading this manual, store it in a safe place for future reference.

How To Use This Manual

Symbols Used in This Manual

The following symbols are used in this manual to explain procedures, restrictions, handling precautions, and instructions that should be observed for safety.

WARNING	Indicates a warning concerning operations that may lead to death or injury to persons if not performed correctly. To use the machine safely, always pay attention to these warnings.
CAUTION	Indicates a caution concerning operations that may lead to injury to persons, or damage to property if not performed correctly. To use the machine safely, always pay attention to these cautions.
IMPORTANT	Indicates operational requirements and restrictions. Be sure to read these items carefully to operate the machine correctly, and avoid damage to the machine.
NOTE	Indicates a clarification of an operation, or contains additional explanations for a procedure. Reading these notes is highly recommended.

Keys and Buttons Used in This Manual

The following symbols and key/button names are a few examples of how keys and buttons to be clicked or pressed are expressed in this manual:

- Control Panel Keys: Key Icon (Key Name)
  Example: (Start)
  (Stop)

- Touch Panel Display Keys: [Key Name]
  Example: [Cancel]
  [Done]

- Buttons on Computer Operation Screens: [Button Name]
  Example: [OK]
  [Add]

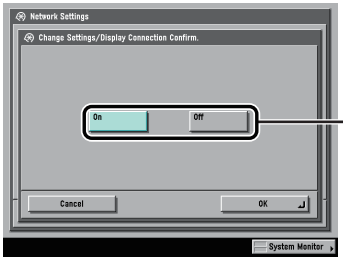
Displays Used in This Manual

Screen shots of the touch panel display used in this manual have been taken from the imageRUNNER 3245.

The keys or buttons which you should click or press are marked with a , as shown below.

When multiple buttons or keys can be clicked or pressed, they will be highlighted and mentioned in the order in which they should be clicked or pressed.

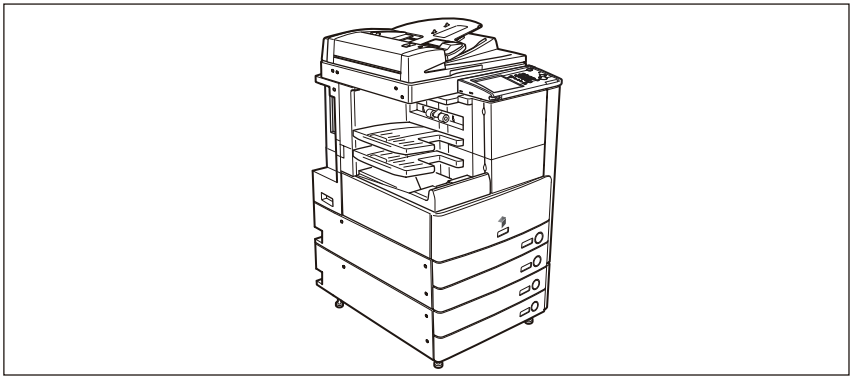
1 On the Network Settings screen, press [Change Settings/Display Connection Confirm.] → specify the following.



Press this key for operation.

Illustrations Used in This Manual

Illustrations used in this manual are those displayed when the imageRUNNER 3245 has the following optional equipment attached to it: the Feeder (DADF-U1), Finisher-S1, Additional Finisher Tray-B1, and Cassette Feeding Unit-Y3.



Abbreviations Used in This Manual

In this manual, product names and model names are abbreviated as follows:

Microsoft Windows 98:	Windows 98
Microsoft Windows Millennium Edition:	Windows Me
Microsoft Windows 2000:	Windows 2000
Microsoft Windows Server 2003:	Windows Server 2003
Microsoft Windows XP:	Windows XP
Microsoft Windows Vista operating system:	Windows Vista
Microsoft Windows operating system:	Windows
Novell NetWare:	NetWare
Apple Macintosh:	Macintosh
Apple Mac:	Mac

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Flow of Settings

1

CHAPTER

This section describes the main functions of the machine and the operations to be performed and settings specified after installing the machine.

What This Machine Can Do. 1-2

Operations Required to Use the Machine 1-5

- Confirm the Following Settings. 1-5
- Sending E-Mail/I-Faxes 1-6
- Sending Data to a File Server 1-7
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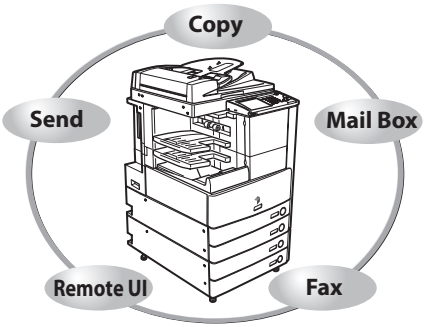
- Printing from a Computer 1-10
- Using the Machine as a Scanner 1-11
- Managing the Machine from a Computer 1-12

What This Machine Can Do

All the elements you will ever need in a digital multitasking machine.



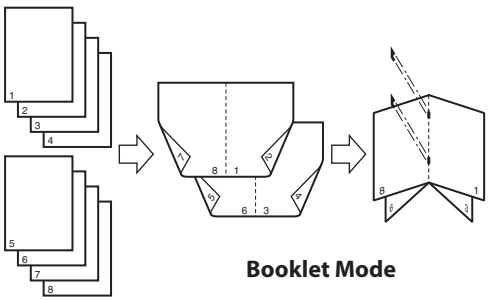
The imageRUNNER 3245/3245i/3235/3235i/3230/3225 incorporates a rich array of input and output features that can greatly enhance your efficiency. Equipped with features that meet the needs of document work in a digitized office, the imageRUNNER 3245/3245i/3235/3235i/3230/3225 represents the ultimate in digital multitasking machines.

An asterisk (*) indicates functions which require optional equipment. For information on the optional equipment required to use each function, and the available combinations of optional equipment, see “Confirm the Following Settings,” on p. 1-5.

Copying

See e-Manual > Copy

In addition to normal copying functions, convenient new functions, such as "Sample Set" which helps to avoid copy errors, "Booklet" for making copies into booklets, and "Different Size Originals" for copying originals of different sizes together in one copy operation, are provided to increase your productivity.

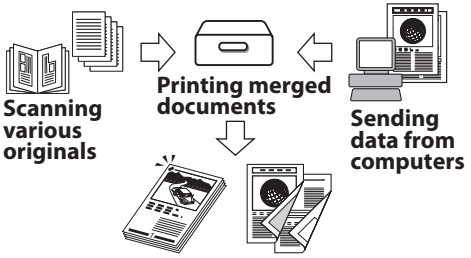


Booklet Mode

Mail Box Function

See e-Manual > Mail Box

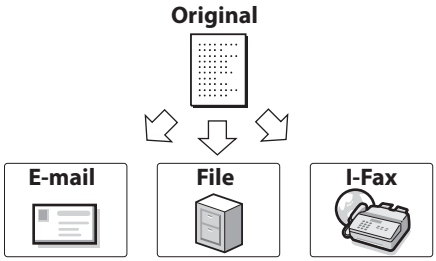
The Mail Box function enables you to save document data that has been scanned from the scanner unit or created on a PC. The saved data can be printed at a specified time, or merged with separately saved data or data created on a PC for simultaneous processing.



Sending Function*

See e-Manual > Send/Fax

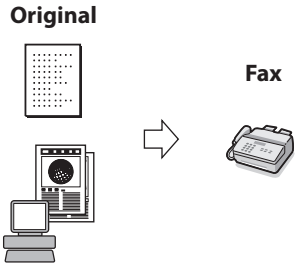
The Send function enables you to send scanned image or document data to file servers, or send it by e-mail or I-fax. A variety of file formats are supported (PDF, JPEG, TIFF, and XPS), which offer you greater flexibility in accommodating digital workplace environments.



Faxing*

See e-Manual > Send/Fax

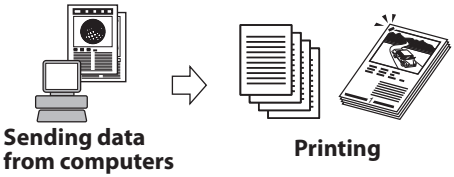
In addition to normal facsimile functions, the machine offers you Super G3 compatibility, which enables you to transmit documents at high speeds, greatly reducing transmission costs as compared to conventional facsimile machines. Scanned documents as well as documents stored in the inbox, and computer data can be sent by facsimile. You can also send documents to multiple addresses and forward received facsimile to another destination.



Printing

See e-Manual > Print

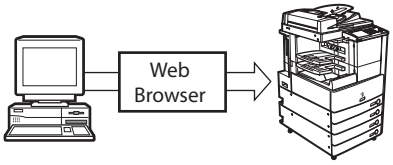
You can use this machine as a high-speed network printer. Various outputs are also possible when printing, such as 2-sided printing and page alignment. The PS Printer Kit is also equipped with the Direct Print functions, which enables you to print a TIFF, PDF, or XPS without opening the file from your computer, using the Remote UI.



Using the Remote User Interface

See e-Manual > Remote UI

You can control functions, such as confirming the status of the machine, job operations, and printing instructions for data saved in inboxes, all from your PC's Web browser.



Applying MEAP

See e-Manual > MEAP/SSO

The MEAP (Multifunctional Embedded Application Platform) incorporated in the machine enables you to install applications to expand the functions of the machine.

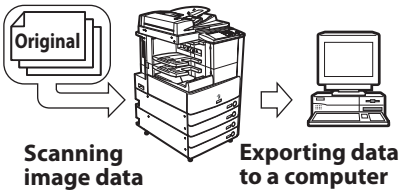
meap
POWERED BY

Network Scanning

See e-Manual > Software

The Network Scan function enables you to use the imageRUNNER 3245/3245i/3235/3235i/3230/3225 as a conventional scanner. You can scan a document using the machine, and read the data in an application you are using on your computer. You can scan images of up to 11"x17" in size at a resolution of 600x600 dpi.

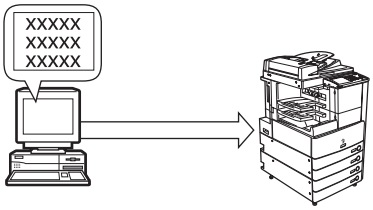
*The Network ScanGear software is supplied on the accompanying CD-ROM. For more information on the Network Scan function, see e-Manual > Software.



Applying Utility Software

See e-Manual > Software

You can perform various settings of the machine connected to a network when using utility software. You can perform initial settings, confirm the status of the machine, and manage documents.



Operations Required to Use the Machine

This section describes the flow of operations and settings for the functions you will use.

Confirm the Following Settings

Some functions of the machine require optional equipment and operations/settings.

If you want to use functions that require license registration, see "License Registration," on p. 2-2. See the flowcharts in this section for functions that require operations or settings.

NOTE

For more information on the optional equipment required to connect the machine to a network, see Chapter 3, "Before Connecting to a Network."

Function		Optional Equipment Required	License Registration	Operations Required
Copy		None	-	None
Mail Box		None	-	None
Send	E-mail/I-fax	Send Kit	Required	See "Sending E-Mail/I-Faxes," on p. 1-6.
	Sending to File Servers	Send Kit	Required	See "Sending Data to a File Server," on p. 1-7.
Sending Faxes	From the Machine	FAX Board	Not required	See "Directly Sending Faxes from the Machine," on p. 1-9.
	From a Computer via the Machine	FAX Board	Not required	See "Sending Faxes from a Computer via the Machine," on p. 1-9.
Receiving Faxes		FAX Board	Not required	None
Printing		None*1	-*1	See "Printing from a Computer," on p. 1-10.
Remote UI		None	-	See "Managing the Machine from a Computer," on p. 1-12.
MEAP		None	-	See "Managing the Machine from a Computer," on p. 1-12.
Scanning		None	-	See "Using the Machine as a Scanner," on p. 1-11.

*1 Optional equipment and/or license registration may be required, depending on the print function.

Sending E-Mail/I-Faxes

The following operations and settings are required to send e-mail/I-faxes with the machine.

NOTE

- *For information on the system requirements for using this function, see "Using E-Mail/I-Fax," on p. 3-5.*
- *If you are using a NetWare network, NetBIOS network, or AppleTalk network, you cannot use this function.*

1 Connect the machine to the network.

See "Connecting to a Network," on p. 4-3.
See "Interface Settings," on p. 4-9.

2 Set the machine to use the TCP/IP network.

See "TCP/IP Network Setup Procedures," on p. 5-2.
See "Protocol Settings," on p. 5-3.

3 Specify the e-mail/I-fax settings.

See "E-Mail/I-Fax Settings," on p. 5-26.

Sending Data to a File Server

The following operations and settings are required to send data to a file server with the machine.

NOTE

- *For information on the system requirements for using this function, see "Sending Data," on p. 3-6.*
- *If you are using an AppleTalk network, you cannot use this function.*
- *The file servers you can use depend on the network you are using. For information on the file servers you can use, refer to the following, according to the network you are using.*
  - *For a TCP/IP network: see "Setting Up a Computer as a File Server," on p. 5-30.*
  - *For a NetWare network: see "Setting Up a Computer as a File Server," on p. 6-7.*
  - *For a NetBIOS netowork: see "Setting Up a Computer as a File Server," on p. 7-6.*

1 Connect the machine to the network.

See "Connecting to a Network," on p. 4-3.
See "Interface Settings," on p. 4-9.

2 Set the machine for the type of network you are using.

For a TCP/IP network

See "TCP/IP Network Setup Procedures," on p. 5-2.
See "Protocol Settings," on p. 5-3.

For a NetWare network

See "NetWare Network Setup Procedures," on p. 6-2.
See "Protocol Settings," on p. 6-3.

For a NetBIOS network

See "NetBIOS Network Setup Procedures," on p. 7-2.
See "Protocol Settings," on p. 7-3.

3 Set up the file server.

For an FTP server

See "FTP Server Settings," on p. 5-31.

For a WebDAV server

See "WebDAV Server Settings," on p. 5-41.

For a NetWare shared folder

See "Setting Up a Computer as a File Server," on p. 6-7.

For a Windows shared folder/Samba shared folder

See "Setting Up a Computer as a File Server," on p. 7-6.

Directly Sending Faxes from the Machine

The following operations and settings are required to directly send faxes with the machine.

1 Specify the settings required for sending faxes.

See "Fax Settings," on p. 9-2.

Sending Faxes from a Computer via the Machine

The following operations and settings are required to send faxes from a computer via the machine.

NOTE

For information on the system requirements for using this function, see "Printing or Sending a Fax from a Computer," on p. 3-2.

1 Connect the machine to a computer.

To connect via a network

See "Connecting to a Network," on p. 4-3.
See "Interface Settings," on p. 4-9.
See "Communication Environment Setup," on p. 4-11.

To connect via USB*

See "Connecting to a USB Interface," on p. 4-5.

*In this case, proceed to step 3 after connecting the machine.

2 Set the machine for the type of network you are using.

For a TCP/IP network

See "TCP/IP Network Setup Procedures," on p. 5-2.
See "Protocol Settings," on p. 5-3.

For a NetWare network

See "NetWare Network Setup Procedures," on p. 6-2.
See "Protocol Settings," on p. 6-3.

For a NetBIOS network

See "NetBIOS Network Setup Procedures," on p. 7-2.
See "Protocol Settings," on p. 7-3.

For an AppleTalk network

See "AppleTalk Network Setup Procedures," on p. 8-2.
See "Protocol Settings," on p. 8-3.

3 Install the fax driver in the computer to use.

See Chapter 11, "Before Sending Faxes from Computers."

4 Specify the settings required for sending faxes.

See "Fax Settings," on p. 9-2.

Printing from a Computer

The following operations and settings are required to print from a computer with the machine.

NOTE

For information on the system requirements for using this function, see "Printing or Sending a Fax from a Computer," on p. 3-2.

1 Connect the machine to a computer.

To connect via a network

See "Connecting to a Network," on p. 4-3.
See "Interface Settings," on p. 4-9.
See "Communication Environment Setup," on p. 4-11.

To connect via USB*

See "Connecting to a USB Interface," on p. 4-5.

*In this case, proceed to step 3 after connecting the machine.

2 Set the machine for the type of network you are using.

For a TCP/IP network

See "TCP/IP Network Setup Procedures," on p. 5-2.
See "Protocol Settings," on p. 5-3.

For a NetWare network

See "NetWare Network Setup Procedures," on p. 6-2.
See "Protocol Settings," on p. 6-3.

For a NetBIOS network

See "NetBIOS Network Setup Procedures," on p. 7-2.
See "Protocol Settings," on p. 7-3.

For an AppleTalk network

See "AppleTalk Network Setup Procedures," on p. 8-2.
See "Protocol Settings," on p. 8-3.

3 **Install the printer driver in the computer to use.**

See Chapter 10, "Before Printing from Computers."

Using the Machine as a Scanner

The following operations and settings are required to use the machine as a scanner.

NOTE

If you are using a NetWare network, NetBIOS network, or AppleTalk network, you cannot use this function.

1 **Connect the machine to the network.**

See "Connecting to a Network," on p. 4-3.
See "Interface Settings," on p. 4-9.

2 **Set the machine to use the TCP/IP network.**

See "TCP/IP Network Setup Procedures," on p. 5-2.
See "Protocol Settings," on p. 5-3.

3 **Install the software for specifying scanner settings (Network ScanGear) into the computer connected to the machine.**

See Chapter 12, "Before Using the Remote Scan Function."

Managing the Machine from a Computer

The following operations and settings are required to manage the machine from a computer.

NOTE

If you are using a NetWare network, NetBIOS network, or AppleTalk network, you cannot use this function.

1 Connect the machine to the network.

See "Connecting to a Network," on p. 4-3.
See "Interface Settings," on p. 4-9.

2 Set the machine to use the TCP/IP network.

See "TCP/IP Network Setup Procedures," on p. 5-2.
See "Protocol Settings," on p. 5-3.

3 Enable the machine to be managed from computers.

To enable the Remote UI

See "System Requirements for Using the Remote UI," on p. 13-2.
See "Before You Start the Remote UI," on p. 13-3.

To enable the MEAP management function (SMS)

See "System Requirements for Using SMS," on p. 13-6.
See "Before Starting SMS (Preparations)," on p. 13-7.

Using Optional Functions That Require License Registration

2
CHAPTER

This chapter describes how to activate the optional functions that require you to register a license.

License Registration 2-2
Various Touch Panel Display Screens 2-4

License Registration

You must register a license key to enable optional modes and functions.

Each optional mode and function requires their own license key to be registered. There is no limit to the number of license keys that can be registered in the machine.

IMPORTANT

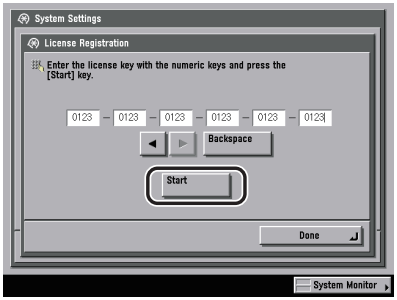
Some optional modes and functions require optional equipment to be installed in addition to obtaining and registering a license key. For more information, see e-Manual > Optional Equipment.

NOTE

A license key can be obtained via a Web browser to access the license management system. Access the system by entering the following URL: http://www.canon.com/lms/license/. For more information on obtaining the license key, see the License Access Number Certificate and the License Registration Booklet included with the various optional kits.

1 **Press (Additional Functions) → [System Settings] → [License Registration].**

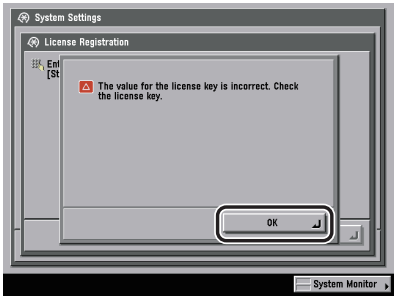
2 Enter the license key using 0 - 9 (numeric keys) → press [Start].


System Settings
License Registration
Enter the license key with the numeric keys and press the [Start] key.
0123 - 0123 - 0123 - 0123 - 0123 - 0123
Backspace
Start
Done
System Monitor

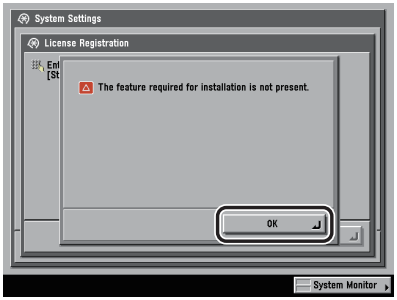
Details of each item are shown below.

[◀] [▶]: Press to move the cursor to the desired position.
[Backspace]: Press to delete the last number entered.

If the following screen is displayed, press [OK] → enter the correct license key.



If the following screen is displayed, the required optional equipment needed for license registration has not been installed. Press [OK] → install the required optional equipment or make sure that the required optional equipment is installed properly → try registering the license key again.



3 **Press [OK].**

IMPORTANT

The functions you register can be used after restarting the machine. (See Chapter 1, "Before You Start Using This Machine," in Troubleshooting.)

Various Touch Panel Display Screens

The top of the touch panel display may differ according to the optional equipment attached to the machine.

Attached Optional Equipment	Displayed Function Keys
None	
Color Universal Send Kit	
Super G3 FAX Board	
Color Universal Send and Web Access Software	

Before Connecting to a Network

3

CHAPTER

This section describes what you need to know before connecting the machine to a network, including the network environments with which the machine is compatible, and how to check the network environment you are using.

Optional Equipment and System Requirements for Connecting to a Network 3-2
- Printing or Sending a Fax from a Computer 3-2
- Using E-Mail/I-Fax. 3-5
- Sending Data 3-6

Checking Your Network Environment 3-9
- Sample Windows Network 3-9
- Sample Macintosh Network 3-10
- Sample UNIX Network 3-10
- Using a Network with Various Types of Computers 3-11

Optional Equipment and System Requirements for Connecting to a Network

This section describes the optional equipment and system environments required to connect the machine to a network.

IMPORTANT

For more information on the equipment needed, consult your local authorized Canon dealer.

NOTE

By connecting the machine to the network, its settings and operations can be performed on computers using the Remote UI and other utilities, without the need for any optional equipment. For more information on the Remote UI, see e-Manual > Remote UI. For more information on utilities, see e-Manual > Software.

Printing or Sending a Fax from a Computer

Optional Equipment Requirements

IMPORTANT

- *The optional Expansion RAM is necessary if you want to use the optional PS Printer Kit with the imageRUNNER 3245/3235/3230/3225.*
- *The Universal Send and PCL Print Package includes the Color Universal Send Kit and the PCL Printer Kit.*

■ Printing

- If you are using the imageRUNNER 3245/3235/3230/3225
  - Optional equipment is unnecessary (If you want to use the UFR II printer driver)
  - PCL Printer Kit, or Universal Send and PCL Print Package (If you want to use the PCL printer driver)
  - PS Printer Kit (If you want to use the PS printer driver)
- If you are using the imageRUNNER 3245i/3235i
  - Optional equipment is unnecessary (If you want to use the UFR II/PCL/PS printer driver)

IMPORTANT

- *To print with Mac OS 9, you need to use a PS printer driver provided by Apple Inc. with the Mac OS, via an AppleTalk network.*
- *The PS printer driver can be used only in a Mac OS X 10.3.9 or later environment. Also, you cannot print documents via an AppleTalk network.*

■ Sending a Fax (for a TCP/IP, NetBIOS, or NetWare network)

- Super G3 FAX Board

System Requirements

The following network and system environments are compatible when printing or sending a fax from a computer:

IMPORTANT

If you are using Windows 2000, you need to install Service Pack 2 or later.

■ With a TCP/IP Network:

- Compatible OS
  - Microsoft Windows 2000 Server
  - Microsoft Windows 2000 Professional
  - Microsoft Windows XP Professional
  - Microsoft Windows XP Home Edition
  - Microsoft Windows Server 2003
  - Microsoft Windows Vista Ultimate
  - Microsoft Windows Vista Business
  - Microsoft Windows Vista Home Premium
  - Microsoft Windows Vista Home Basic
  - Microsoft Windows Vista Enterprise
  - Solaris Version 1.1x (SunOS Version 4.1x) or later
  - Solaris Version 2.5x (SunOS Version 5.5x) or later
  - Mac OS X 10.3 or later
- Computers/memory
  - Any computer which runs the above operating system software properly

IMPORTANT

If you are using Mac OS X, compatible operating systems differ depending on the type of printer driver. For details, see Chapter 10, "Before Printing from Computers".

■ With a NetBIOS Network:

- Compatible OS
  - Microsoft Windows 2000 Server
  - Microsoft Windows 2000 Professional
  - Microsoft Windows XP Professional
  - Microsoft Windows XP Home Edition
  - Microsoft Windows Server 2003
  - Microsoft Windows Vista Ultimate
  - Microsoft Windows Vista Business
  - Microsoft Windows Vista Home Premium
  - Microsoft Windows Vista Home Basic
  - Microsoft Windows Vista Enterprise
  - Mac OS X 10.3 or later
- Compatible Protocol
  - NetBIOS over TCP/IP (NetBT)
- Computers/memory
  - Any computer which runs the above operating system software properly

IMPORTANT

When you are using Mac OS X 10.3 or later, you can only print via a NetBIOS network if you are using a PS printer driver provided by Apple Inc. with the Mac OS.

■ With a NetWare Network:

- Compatible Servers
  - Novell NetWare Version 3.2/4.1/4.11/4.2/5/5.1/6/6.5
- Compatible Clients
  - Microsoft Windows 2000 Server
  - Microsoft Windows 2000 Professional
  - Microsoft Windows XP Professional
  - Microsoft Windows XP Home Edition
  - Microsoft Windows Server 2003
  - Microsoft Windows Vista Ultimate
  - Microsoft Windows Vista Business
  - Microsoft Windows Vista Home Premium
  - Microsoft Windows Vista Home Basic
  - Microsoft Windows Vista Enterprise
- Computers/memory
  - Any computer which runs the above operating system software properly

■ With an AppleTalk Network:

- Compatible AppleTalk
  - EtherTalk Phase 2
- See Chapter 10, "Before Printing from Computers," for compatible operating systems and computers.

IMPORTANT

The machine does not support Macintosh LocalTalk networks.

■ With a Server-Based Computing Environment:

- Compatible Windows Terminal Server (Services)
  - Microsoft Windows 2000 Server
  - Microsoft Windows Server 2003
- Compatible Software
  - Citrix MetaFrame 1.8
  - Citrix MetaFrame XP

Using E-Mail/I-Fax

Optional Equipment Requirements

- Color Universal Send Kit, or Universal Send and PCL Print Package, for the imageRUNNER 3245/3235/3230/3225.

System Requirements

The following system environments are confirmed for using the e-mail/I-fax functions:

- Compatible mail forwarding server software
  - Sendmail 8.93 or later (UNIX)
  - Microsoft Exchange Server (Windows)
  - (Microsoft Exchange Server 5.5 + Service Pack 1 or later)
  - Lotus Domino R4.6 or later (Windows)
- Compatible mail receiving server software
  - Qpopper 2.53 or later (UNIX)
  - Microsoft Exchange Server (Windows)
  - (Microsoft Exchange Server 5.5 + Service Pack 1 or later)
  - Lotus Domino R4.6 or later (Windows)

IMPORTANT

If you are using Windows 2000, you need to install Service Pack 2 or later.

NOTE

- *The machine sends e-mail or I-fax messages to mail servers using SMTP.*
  The machine can receive incoming messages from a mail server using the POP3 protocol or directly using the machine's own SMTP receiving function.
  If the latter method is used, it is not necessary for the mail server to support the POP3 protocol.
- *The machine can receive I-fax images and error e-mail messages sent when errors occur during communication, but not any other type of e-mail.*

Sending Data

Optional Equipment Requirements

- Color Universal Send Kit, or Universal Send and PCL Print Package, for the imageRUNNER 3245/3235/3230/3225.

System Requirements

The following network and system environments are compatible when sending data from the machine to a file server, depending on the type of network used:

IMPORTANT

If you are using Windows 2000, you need to install Service Pack 2 or later.

■ With a TCP/IPv4 Network (Using FTP):

- Compatible servers
  - Microsoft Windows 2000 Server and Internet Information Services (IIS) 5.0
  - Microsoft Windows XP Professional and IIS 5.1
  - Microsoft Windows Server 2003 and IIS 6.0
  - Microsoft Windows Vista Ultimate and IIS 7.0
  - Microsoft Windows Vista Business and IIS 7.0
  - Microsoft Windows Vista Home Premium and IIS 7.0
  - Microsoft Windows Vista Home Basic and IIS 7.0
  - Microsoft Windows Vista Enterprise and IIS 7.0
  - Solaris Version 2.6 or later
  - Red Hat Linux 7.2 or later
  - Mac OS X
  - FTP server for imageWARE Document Manager Gateway
- Compatible protocol
  - TCP/IPv4

■ With a TCP/IPv6 Network (Using FTP):

- Compatible servers
  - Solaris Version 9 or later
  - Red Hat Enterprise Linux AS/ES/WS 4.0 or later
  - Mac OS X 10.3 or later
- Compatible protocol
  - TCP/IPv6

■ With a TCP/IPv4 Network (Using WebDAV):

- Compatible servers
  - Microsoft Windows 2000 Server and IIS 5.0
  - Microsoft Windows 2000 Professional and IIS 5.0
  - Microsoft Windows XP Professional and IIS 5.1
  - Microsoft Windows Server 2003 and IIS 6.0
  - Microsoft Windows 2000 Server and Apache 2.0 for Win 32
  - Microsoft Windows XP Professional and Apache 2.0 for Win 32
  - Microsoft Windows Server 2003 and Apache 2.0 for Win 32
  - Solaris Version 2.6 or later, and Apache 2.0 or later
  - Red Hat Enterprise Linux AS/ES/WS 4.0 or later, and Apache 2.0 or later
  - Mac OS X
- Compatible protocol for the WebDAV server
  - TCP/IPv4

■ With a TCP/IPv6 Network (Using WebDAV):

- Compatible servers
  - Microsoft Windows Server 2003 and IIS 6.0
  - Solaris Version 9 or later, and Apache 2.0 or later
- Compatible protocol for the WebDAV server
  - TCP/IPv6

IMPORTANT

If you connect to the internet via a proxy, the proxy server must support IPv6.

■ With a NetBIOS Network:

- Compatible servers
  - Microsoft Windows 2000 Server
  - Microsoft Windows 2000 Professional
  - Microsoft Windows XP Professional
  - Microsoft Windows XP Home Edition
  - Microsoft Windows Server 2003
  - Microsoft Windows Vista Ultimate
  - Microsoft Windows Vista Business
  - Microsoft Windows Vista Home Premium
  - Microsoft Windows Vista Home Basic
  - Microsoft Windows Vista Enterprise
- Compatible server software for sending data
  - Samba 2.2.8a or later (UNIX/Linux/Mac OS X)
- Compatible protocol
  - NetBIOS over TCP/IP (NetBT)

■ With a NetWare Network:

- Compatible server
  - Novell NetWare Version 3.2/4.11/4.2/5/5.1/6/6.5
- Compatible protocol
  - IPX

Checking Your Network Environment

Refer to the following examples to confirm the network environment that is connected to the machine, and then perform the necessary operations for that environment.

Sample Windows Network

In a Windows network environment, the TCP/IP or NetBIOS (NetBIOS over TCP/IP) protocol can be used. Multiple protocols can be used at the same time.

In addition to IPv4 (Internet Protocol Version 4), the machine also supports IPv6 (Internet Protocol Version 6), and has a dual stack configuration that enables it to communicate with both IPv4 networks and IPv6 networks. You can select whether to use the functions of IPv4 or IPv6. You can also enable the functions of both IPv4 and IPv6. The IPv4 network and IPv6 network used by the machine supports IPSec (Security Architecture for Internet Protocol). (See e-Manual > Network.)

To use the e-mail/I-fax function, the TCP/IP protocol is required.

After configuring the settings in accordance with Chapter 4, "Settings Common to the Network Protocols," see the following, depending on the protocol:

- Chapter 5, "Using a TCP/IP Network"
- Chapter 7, "Using a NetBIOS Network"

IMPORTANT

- *Optional equipment is required to use the e-mail/I-fax functions if you are using the imageRUNNER 3245/3235/3230/3225. For the equipment needed, see "Optional Equipment and System Requirements for Connecting to a Network," on p. 3-2.*
- *The machine does not support NetBEUI.*
- *To perform IPSec communication, the optional IPSec Board must be installed after installing the optional Expansion Bus.*

Sample Macintosh Network

In Mac OS 8/9, the AppleTalk (EtherTalk) protocol is used. In Mac OS X, either the AppleTalk (EtherTalk), TCP/IP, or NetBIOS (NetBIOS over TCP/IP) protocol can be used.

To use the e-mail/I-fax function or to send data, the TCP/IP protocol is required.

After configuring the settings in accordance with Chapter 4, "Settings Common to the Network Protocols," see the following, depending on the protocol:

- Chapter 8, "Using an AppleTalk Network (Macintosh)"
- Chapter 5, "Using a TCP/IP Network"
- Chapter 7, "Using a NetBIOS Network"

IMPORTANT

- *Optional equipment is required to use the e-mail/I-fax functions, or data sending functions for the machine if you are using the imageRUNNER 3245/3235/3230/3225. For the equipment needed, see "Optional Equipment and System Requirements for Connecting to a Network," on p. 3-2.*
- *The protocol you can use differs depending on the version of Mac OS or type of printer driver. For details, see Chapter 10, "Before Printing from Computers".*

Sample UNIX Network

With UNIX computers, the TCP/IP protocol is used.

After configuring the settings in accordance with Chapter 4, "Settings Common to the Network Protocols," see the following:

- Chapter 5, "Using a TCP/IP Network"

Using a Network with Various Types of Computers

If there are various types of computers on the network, the network operations you are required to perform depend on the type of computers being used.

For example, if you are using Windows XP and Macintosh computers, you will need to specify the settings described in both "Sample Windows Network" and "Sample Macintosh Network".

To use the e-mail/I-fax function, the TCP/IP protocol is required.

To use the data sending function, either the TCP/IP, NetWare, or NetBIOS protocol is required.

After configuring the settings in accordance with Chapter 4, "Settings Common to the Network Protocols," see the following, depending on the protocol:

- Chapter 5, "Using a TCP/IP Network"
- Chapter 6, "Using a NetWare Network (Windows)"
- Chapter 7, "Using a NetBIOS Network"
- Chapter 8, "Using an AppleTalk Network (Macintosh)"

IMPORTANT

Optional equipment is required to use the e-mail/I-fax functions, or data sending functions for the machine if you are using the imageRUNNER 3245/3235/3230/3225. For the equipment needed, see "Optional Equipment and System Requirements for Connecting to a Network," on p. 3-2.

Settings Common to the Network Protocols

4

CHAPTER

This chapter describes setting items common to the network protocols, which are required for using the machine in a network environment. Before specifying the settings of the desired protocol (Chapters 5 to 8), be sure to set the items explained in this chapter.

Network Environment Setup Procedures 4-2

Connecting the Machine to a Computer or Network 4-3

- Connecting to a Network 4-3
- Connecting to a USB Interface 4-5

Touch Panel Display Transition 4-7

Interface Settings 4-9

Communication Environment Setup 4-11

Network Environment Setup Procedures

Before using the machine in a network environment, it is necessary to perform the following setup procedures.

1 **Network Cable Connection (See "Connecting the Machine to a Computer or Network," on p. 4-3.)**

Connect the machine to the network using the network cables.

2 **Interface Settings (See "Interface Settings," on p. 4-9.)**

Specify the interface settings for communication between the machine and computers on your network. To specify the settings, use:

- The machine's control panel
- The Remote UI (via a web browser)

3 **Communication Environment Setup (See "Communication Environment Setup," on p. 4-11.)**

Set up the environment for communication between the machine and computers on your network.

Connecting the Machine to a Computer or Network

The machine can be connected to a computer or network with a USB cable or 10Base-T/100Base-TX/1000Base-T Ethernet cable.

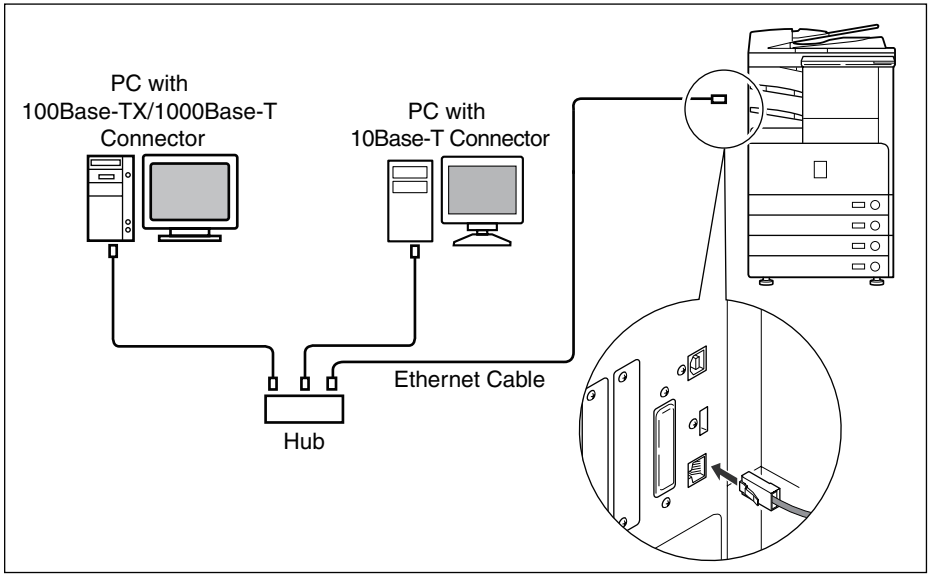
IMPORTANT

- *External USB devices (e.g., memory, keyboard, mouse, etc.) are not supported.*
- *A USB cable or network cable are not included in this package. Please obtain a suitable cable for your computer or network.*

Connecting to a Network

The machine supports TCP/IP, AppleTalk, and NetWare, which enables it to be used by Windows, Macintosh, UNIX, and Linux computers. It also has a 10Base-T/100Base-TX/1000Base-T connector that can be used on most LANs.

When using 10Base-T/100Base-TX, connect the machine's RJ-45 connector to a hub port using a Category 5 twisted pair LAN cable. When using 1000Base-T, it is recommended you use an Enchanced Category 5 twisted pair LAN cable.



CAUTION

When connecting the interface cable or network cable, be sure to observe the following precautions to avoid electrical shock.

- **Turn OFF the machine's main power switch before disconnecting the power cord from the power outlet. (See Chapter 1, "Before You Start Using This Machine," in Troubleshooting.)**
- **Turn OFF the computer and disconnect the power cord from the power outlet.**

IMPORTANT

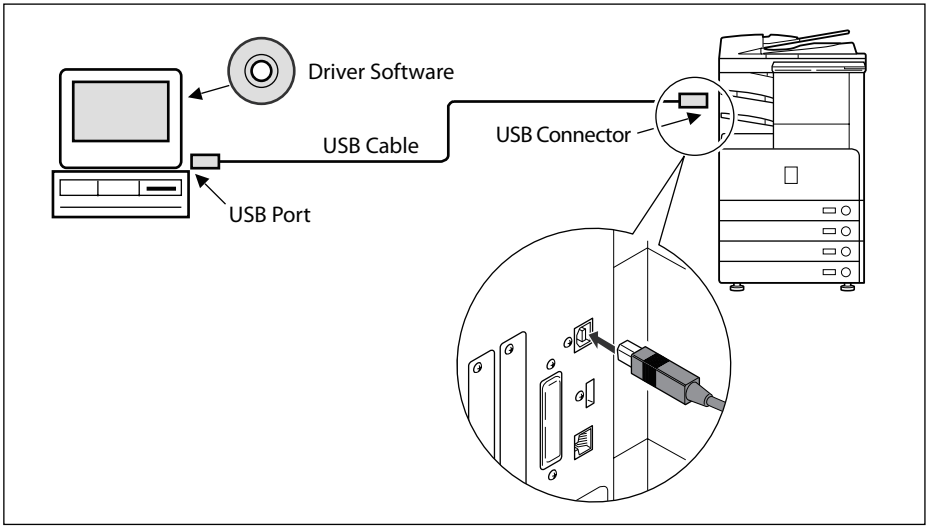
- *You cannot use the machine as a repeater, bridge, or gateway.*
- *If two or more machines are on an AppleTalk network, they should be switched 'ON' 10 seconds or more apart.*

NOTE

- *The machine can automatically detect the type of Ethernet (10Base-T, 100Base-TX, or 1000Base-T).*
- *If you are using a mixed 10Base-T/100Base-TX/1000Base-T environment, devices on the network (hubs, routers, etc.) must support the mixed environment. For more information, consult your local authorized Canon dealer.*
- *After connecting the network cable, perform the following operations. (For more information, see the relevant descriptions.)*
  - *Set the date and time, and System Manager settings. (See e-Manual > Security.)*
  - *Set the network settings.*
  - *Install a driver if necessary. (See Chapter 10, "Before Printing from Computers," or Chapter 11, "Before Sending Faxes from Computers."*
  - *Install a utility if necessary. (See the manuals provided with the utility.)*

Connecting to a USB Interface

You can connect the machine to a computer with a USB port via a USB cable. The machine is USB 2.0 Hi-Speed compatible. The drivers, and utility that matches the operating system on your computer will be installed. For more information on installing the driver through a USB connection, see Chapter 10, "Before Printing from Computers," or Chapter 11, "Before Sending Faxes from Computers." For information on installing a utility, see the manuals provided with the utility.



CAUTION

If you connect or disconnect the USB cable while the machine's main power switch is ON, do not touch the metal parts around the connector, as this may result in electrical shock.

IMPORTANT

- *Do not connect or disconnect the USB cable in the following situations, as it may cause your computer or the machine to operate poorly:*
  - *When installing the driver*
  - *When the computer is booting up*
  - *When printing*
- *If you disconnect the USB cable with the computer or machine's main power switch ON, always wait at least five seconds before reconnecting the cable. Immediately reconnecting the cable may cause your computer or machine to operate poorly.*
- *When the machine is connected to a personal computer via the USB cable, you will not be able to use some of the utilities.*
- *If you connect the machine to a personal computer via a USB cable, confirm that [Use USB Device] (in the System Settings screen) is set to 'On'. (See e-Manual > Security.)*

NOTE

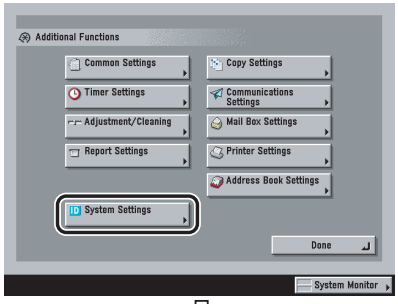
- *If you connect the machine to a Macintosh via a USB cable, the Macintosh, if shut down, may start up when the machine starts up or returns from the Sleep mode. If this happens, disconnect the USB cable (the use of a USB hub between the machine and the Macintosh may solve this problem).*
- *If the machine is connected to a computer with a USB cable, you can print a document from your computer using the printer driver, or send a fax from your computer using the fax driver.*
- *You cannot specify a computer connected to the machine through a USB connection as a destination for Send jobs or forwarded jobs. Also, with that computer, you cannot use the Remote UI and the Network Scan function.*
- *The appropriate USB interface differs depending on the operating system of the connected computer as follows. For more information, consult your local authorized Canon dealer.*
  - *Windows 2000/XP/Server 2003/Vista: USB 2.0 Hi-Speed/USB Full-Speed (USB 1.1 equivalent)*
  - *Mac OS 8/9/X (10.3.2 or earlier): USB Full-Speed (USB 1.1 equivalent)*
  - *Mac OS X (10.3.3 or later): USB 2.0 Hi-Speed/USB Full-Speed (USB 1.1 equivalent)*

Touch Panel Display Transition

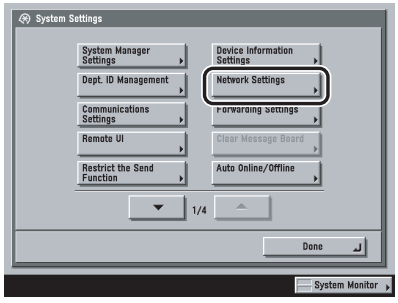
The following is a flow diagram of the touch panel display used in this manual.

Specify the network settings from the Additional Functions screen displayed by pressing (Additional Functions). See this diagram to specify the various network settings, in accordance with the procedures in Chapters 5 to 8.

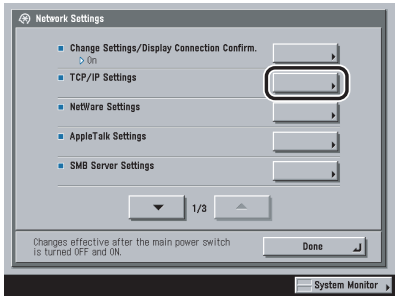
Additional Functions screen



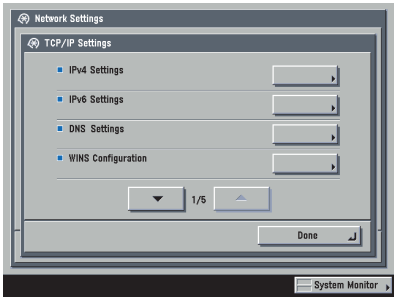
System Settings screen



Network Settings screen



TCP/IP Settings screen



IMPORTANT

Settings specified from the control panel become effective after the machine is restarted, after the procedure. Turn OFF the machine, wait at least 10 seconds, and then turn it ON. (See Chapter 1, "Before You Start Using This Machine," in Troubleshooting.)

NOTE

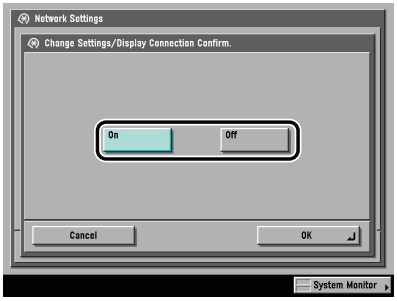
- *If the System Manager ID and password are set, enter them. (See e-Manual > Security.)*
- *For instructions on how to turn ON/OFF the machine, see Chapter 1, "Before You Start Using This Machine," in Troubleshooting.*

Interface Settings

This section describes how to specify the interface settings from the control panel. If you are configuring the settings for the first time, use the control panel of the machine.

After configuring the settings, you can change them using software other than the control panel of the machine. For details, see e-Manual > Network.

1 On the Network Settings screen, press [Change Settings/Display Connection Confirm.] → specify the following.



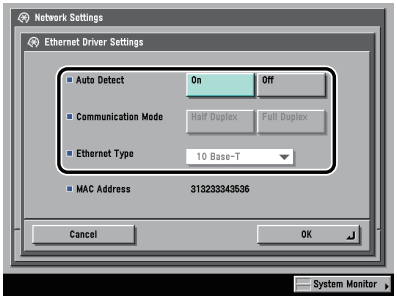
[On]: If errors related to network connections occur, an error message is displayed on the touch panel display of the machine. If you want to use the machine in a network environment, select [On].

[Off]: Messages related to network connections are no longer displayed. If you want to use the machine without connecting to a network, select [Off].

IMPORTANT

Even if you switch the [Change Settings/Display Connection Confirm.] setting from 'On' to 'Off', if the network connections are correctly set they will not be disconnected. The settings in the Network Settings screen will not be changed.

2 On the Network Settings screen, press [Ethernet Driver Settings] → specify the following.



● If you want the machine to automatically determine the communication mode and Ethernet type:

☐ <Auto Detect>: [On]

If you reconnect the network cable (for example, reconnect the cable to a different Ethernet hub) with the machine's main power switch ON, the Auto Detect function will not work even if you set <Auto Detect> to [On]. Turn OFF the machine, wait at least 10 seconds, and then turn it ON. (Connect the cable with the machine's main power switch OFF.)

IMPORTANT

The machine automatically determines the Ethernet type. Press [On] unless you want to specify a particular Ethernet setting.

● If you want to manually set the communication mode and Ethernet type for specifying a particular Ethernet type setting:

☐ <Auto Detect>: [Off].

Select the appropriate items for <Communication Mode> and <Ethernet Type>, according to the network environment you are using.

IMPORTANT

To connect with 1000Base-T, select [Full Duplex] for <Communication Mode>.

Communication Environment Setup

This section describes how to set up the environment for communication between the machine and computers on your network. If you are configuring the settings for the first time, use the control panel of the machine.

After configuring the settings, you can change them using software other than the control panel of the machine. For details, see e-Manual > Network.

IMPORTANT

[SNMP Settings] does not support AppleTalk networks.

1 On the Network Settings screen, press [SNMP Settings] → specify the settings for SNMP v. 1.

[On] for <Use SNMP v. 1>: Follow the procedure below to specify the MIB access permissions and community names.

IMPORTANT

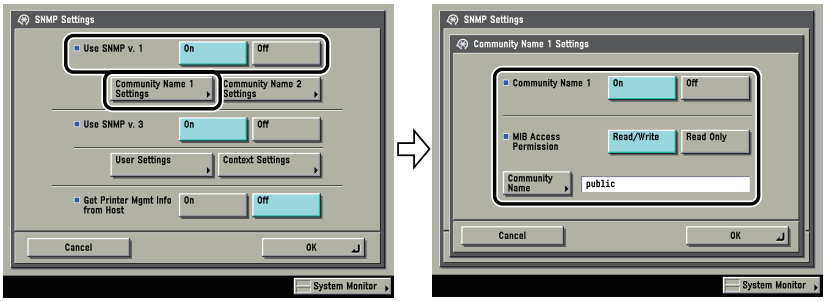
- *The machine supports the SNMP v. 1 and SNMP v. 3 management functions. You can use them simultaneously. The [Read Only]/[Read/Write] functions of SNMP v. 1 and the security functions of SNMP v. 3, such as an encrypted communication path, enable you to manage devices more securely. The available combinations of SNMP v. 1 and SNMP v. 3 functions you can use are shown below:*

SNMP v. 1		SNMP v. 3	Description
Use SNMP v. 1	**MIB Access Permission**	**Use SNMP v. 3**	
On	Read/Write	On/Off	You can set or browse each item of the machine with a utility that uses SNMP v. 1 to obtain information. As the write access with SNMP v. 1 is enabled, the security functions of SNMP v. 3 are not available, regardless of the settings for <Use SNMP v. 3>.
On	Read Only	On	You can only browse each item of the machine with a utility that uses SNMP v. 1 to obtain information. Only users who have been assigned access rights can set each item of the machine with a utility that uses SNMP v. 3.
On	Read Only	Off	You can only browse each item of the machine with a utility that uses SNMP v. 1 to obtain information.
Off	-	On	Only users who have been assigned access rights can set or browse each item of the machine with a utility that uses SNMP v. 3.
Off	-	Off	You cannot set or browse each item of the machine with a utility.

- *If you want to use a Canon printer driver or utility, press [On] for both <Use SNMP v. 1> and [Enable Dedicated Port].*
- *You can restrict the IP addresses of computers on which items can be set or browsed. If you restrict the IP addresses, it is not possible to set or browse detailed information concerning the machine on computers other than those whose IP addresses are allowed, even if <Use SNMP v. 1>, <Use SNMP v. 3>, and [Enable Dedicated Port] are 'On'. For details, see "TCP/IPv4 Settings," on p. 5-3 or see "TCP/IPv6 Settings," on p. 5-9.*

● If you want to specify a Community Name 1

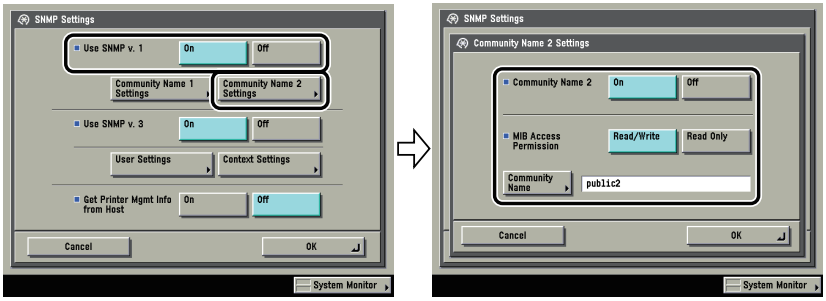
☐ Press [Community Name 1 Settings] → [On] → specify the settings for <MIB Access Permission> and the community name in [Community Name].



You can also change the community name in [Community Name] to a name other than 'public'.

● If you want to specify a Community Name 2

☐ Press [Community Name 2 Settings] → [On] → specify the settings for <MIB Access Permission> and the community name in [Community Name].



You can also change the community name in [Community Name] to a name other than 'public2'.

2 Specify the settings for SNMP v. 3.

[On] for <Use SNMP v. 3>: Specify the user and context according to the following procedures.

NOTE

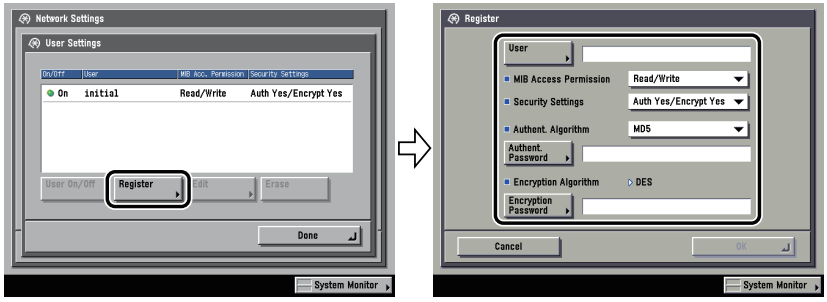
An SNMP v. 3 user with the following settings is registered by default. Delete or change these settings as necessary.

- *User: initial*
- *MIB Access Permission: Read/Write*
- *Security Settings: Auth Yes/Encrypt Yes*
- *Authent. Algorithm: MD5*
- *Authent. Password: initial*
- *Encryption Password: initial*

● If you want to add an SNMP v. 3 user:

☐ Press [User Settings] → [Register] → specify the user name, MIB permissions, and security settings.

If you select [Auth Yes/Encrypt Yes] from the Security Settings drop-down list, select the authentication algorithm → enter the passwords for authentication and encryption. If you select [Auth. Yes/Encrypt. No] from the Security Settings drop-down list, select the authentication algorithm → enter the password for authentication.



● If you want to confirm or change the SNMP v. 3 user settings:

☐ Press [User Settings] to select the user whose settings you want to confirm or change → press [Details/Edit].

Confirm the displayed information → change the settings if necessary.

● If you want to erase an SNMP v. 3 user:

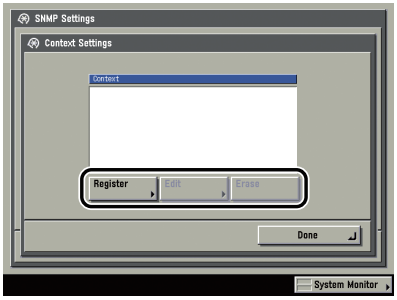
☐ Press [User Settings] to select the user whose settings you want to erase → press [Erase].

● If you want to change the status of an SNMP v. 3 user:

☐ Press [User Settings] → select the user whose status you want to change → press [User On/Off].

● **If you want to edit the context:**

☐ Press [Context Settings] → edit the context.

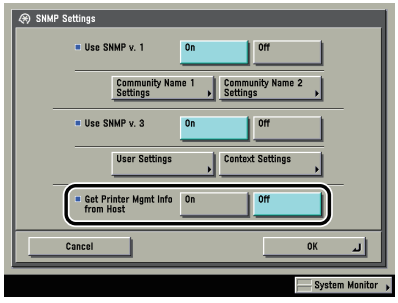


If you want to add a context, press [Register] to add a new context. If you want to change a context, select the context you want to change → press [Edit] to change the context. If you want to erase a context, select the context you want to erase → press [Erase].

NOTE

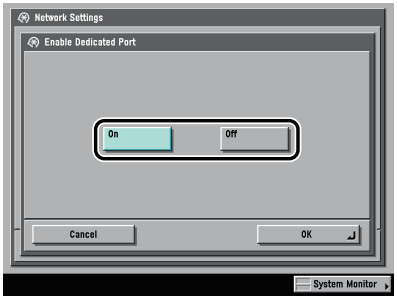
A context named 'NULL' is registered by default. The 'NULL' context cannot be deleted, and is not displayed on the Context Settings screen.

3 Set monitoring for the printer management information.



[On] for <Get Printer Mgmt Info from Host>: If you are using Windows Vista and set [Standard TCP/IP port] for the printer driver port, the SNMP port monitoring function will be enabled automatically to obtain printer management information such as information on print applications and printer ports.

4 On the Network Settings screen, press [Enable Dedicated Port] → specify the following.

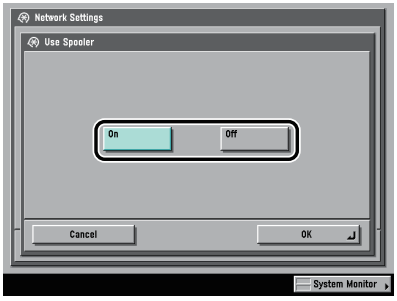


[On]: You can set or browse detailed information on the machine with a Canon printer driver or utility (UFR II/PCL/PS printer drivers, NetSpot Device Installer, etc.).

IMPORTANT

- *If you want to use a Canon printer driver or utility, press [On] for both <Use SNMP v. 1> and [Enable Dedicated Port].*
- *You can restrict the IP addresses of computers on which items can be set or browsed. If you restrict the IP addresses, it is not possible to set or browse detailed information concerning the machine on computers other than those whose IP addresses are allowed, even if <Use SNMP v. 1>, <Use SNMP v. 3>, and [Enable Dedicated Port] are 'On'. For details, see "TCP/IPv4 Settings," on p. 5-3 or see "TCP/IPv6 Settings," on p. 5-9.*

5 On the Network Settings screen, press [Use Spooler] → specify the following.



[On]: You can spool print jobs transmitted to this machine on the machine's hard disk.

IMPORTANT

If you are using the imageRUNNER 3245i/3235i, or the imageRUNNER 3245/3235/3230/3225 with the optional PS Printer Kit, take note of the following:

- *If the print job is sent from a Macintosh computer to a PS printer, you cannot specify whether to spool under this option. Spooling is determined by the name of the printer selected in the Macintosh screen. For more information, see e-Manual > Network.*
- *If you print a file in PDF or PS format by specifying its URL on the Remote UI, the print job will always be spooled, regardless of the settings made under this option.*

NOTE

When you spool a print job on the machine's hard disk, the time required to release a computer outputting a print job is shortened.

Using a TCP/IP Network

5
CHAPTER

This chapter describes the settings and procedures necessary to connect and use the machine with a TCP/IP network.

TCP/IP Network Setup Procedures. 5-2

Protocol Settings 5-3
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- TCP/IPv6 Settings 5-9
- Settings Common to TCP/IPv4 and TCP/IPv6 5-17
- Confirming TCP/IPv4 Settings 5-24
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TCP/IP Network Setup Procedures

To use a TCP/IP network, it is necessary to perform the following procedures.

1 **Protocol Settings (See "Protocol Settings," on p. 5-3.)**

Specify the protocol settings. To specify the settings, use:

- The machine's control panel
- The Remote UI (via a web browser)
- Canon utilities (NetSpot Device Installer, etc.)

2 **Computer Settings for Printing/Sending a Fax (See e-Manual > Network.)**

Specify the settings for each computer you use for printing or sending a fax. (Optional equipment is required to print or send a fax from a computer. For the equipment needed, see "Optional Equipment and System Requirements for Connecting to a Network," on p. 3-2.)

3 **Computer Settings for a File Server (See "Setting Up a Computer as a File Server," on p. 5-30.)**

Specify the settings of the computer receiving data sent from the machine. (Optional equipment is required to send data if you are using the imageRUNNER 3245/3235/3230/3225. For the equipment needed, see "Optional Equipment and System Requirements for Connecting to a Network," on p. 3-2.)

IMPORTANT

- *It is recommended that steps 1 and 3 above be performed by the network administrator.*
- *The machine or optional printing equipment does not come with printer driver software that can be used on a UNIX platform. (Use LPD to set up a printer in UNIX.)*
- *As the fax option does not come with fax driver software for the UNIX platform, it is not possible to send a fax from a UNIX platform.*

Protocol Settings

This section describes how to specify the protocol settings for the machine using the control panel. If you are configuring the settings for the first time, use the control panel of the machine.

After configuring the settings, you can change the content by using software other than the control panel of the machine. For details, see e-Manual > Network.

IMPORTANT

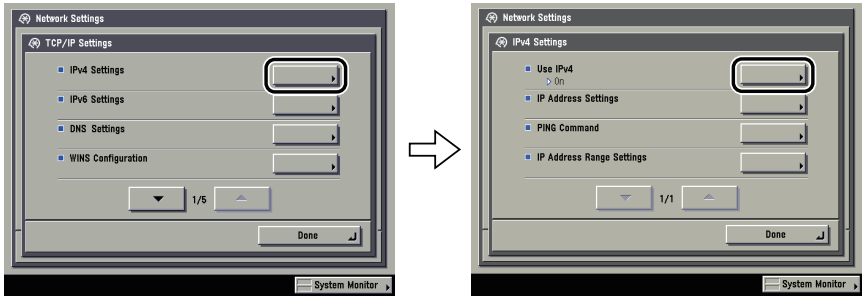
When using functions to access external servers on the internet, you may not be able to access them due to the settings of firewalls, etc. In this case, consult your network administrator.

TCP/IPv4 Settings

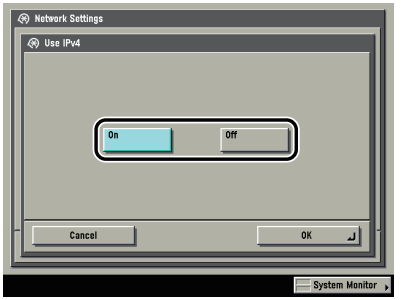
This section describes the procedure for setting TCP/IPv4 using the control panel. After specifying the settings for TCP/IPv4, follow the procedure in "Settings Common to TCP/IPv4 and TCP/IPv6," on p. 5-17 to specify the required settings, and the procedure in "Confirming TCP/IPv4 Settings," on p. 5-24 to check whether the network settings are correct. If the settings for TCP/IPv6 are already specified and you have finished specifying the settings common to TCP/IPv4 and TCP/IPv6, only check the network settings after completing this procedure.

If you want to use IPv6 communications at the same time, follow the procedure in "TCP/IPv6 Settings," to specify the required settings, and the procedure in "Confirming TCP/IPv6 Settings," on p. 5-25 to confirm the settings.

1 On the TCP/IP Settings screen, press [IPv4 Settings] → [Use IPv4].



2 In <Use IPv4>, specify the following.

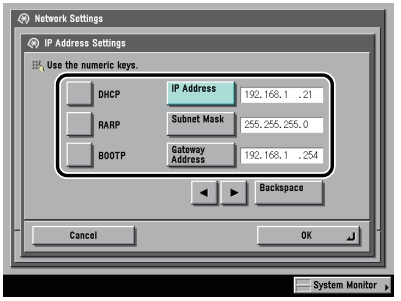


[On] for <Use IPv4>: IPv4 networks can be used.
[Off] for <Use IPv4>: IPv4 networks cannot be used, regardless of the settings specified for IPv4 on the Additional Functions screen. The ARP (Address Resolution Protocol) table is also disabled.

IMPORTANT

If you set <Use IPv4> to 'Off', you cannot use a NetBIOS network.

3 On the TCP/IPv4 Settings screen, press [IP Address Settings] → specify the following.



● Using a fixed IP address:

☐ [DHCP], [RARP], and [BOOTP]: [Off]

Enter the appropriate values in [IP Address], [Subnet Mask], and [Gateway Address].

NOTE

It takes about two minutes to check whether the DHCP, BOOTP, or RARP settings can be used. If you do not plan to use one of these settings, it is recommended that you turn them off.

● Obtaining automatically an IP address:

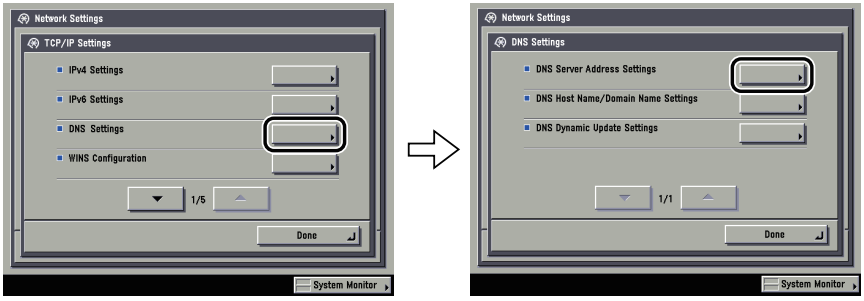
☐ [DHCP], [RARP], or [BOOTP]: [On]

If this information cannot be obtained via DHCP, RARP, or BOOTP after you restart the machine, enter the IP address, subnet mask, and gateway address to use the settings entered in this step.

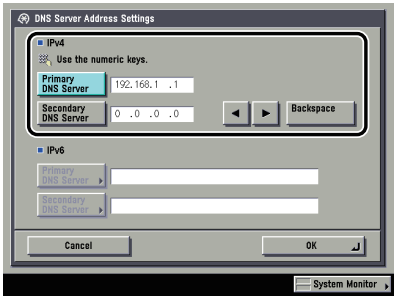
NOTE

- *If the machine is restarted after DHCP, BOOTP, or RARP settings are specified, the TCP/IP Settings screen displays the IP address setting values obtained from the DHCP, BOOTP, or RARP server. (If the IP address, host name, and domain name have been previously set, these will be overwritten by the setting values obtained from DHCP, BOOTP, or RARP.)*
- *If you use DHCP without the DNS dynamic update function, it is recommended that an identical IP address be assigned to the machine at all times. (If the IP address is not identical, the host name for the machine will not correspond to the IP address.)*

4 On the TCP/IP Settings screen, press [DNS Settings] → [DNS Server Address Settings].



5 In <IPv4>, specify the following.



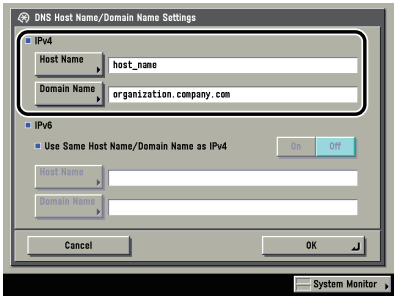
If you want to use dynamic DNS updating, enter the IPv4 address of the DNS server in [Primary DNS Server].

If you do not want to set up a secondary DNS server, enter <0.0.0.0>.

IMPORTANT

If you set [BOOTP] or [DHCP] to 'On' in step 3, the IP address of a DNS server you set manually will be overwritten.

6 On the DNS Settings screen, press [DNS Host Name/Domain Name Settings] → in <IPv4>, specify the following.



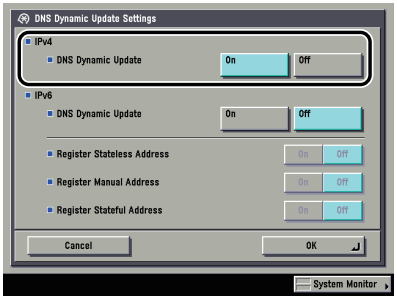
Enter the name of the machine as [Host Name], and the network domain name of the machine as [Domain Name].

If you want to use dynamic DNS updating, it is necessary to set a host name and domain name.

IMPORTANT

If you set [BOOTP] or [DHCP] to 'On' in step 3, the host name and domain name you set manually will be overwritten.

7 On the DNS Settings screen, press [DNS Dynamic Update Settings] → in <IPv4>, specify the following.



[On] for <DNS Dynamic Update>: If your environment includes a dynamic DNS server, you can automatically register the IPv4 address, host name, and domain name set for the machine in the DNS server using dynamic DNS updating.

NOTE

- *If you have a DHCP server running Windows 2000 Server that uses the DHCP service and want to register the machine's DNS record, configure the following settings in the DHCP server:*
  - *In the DHCP server, right-click the [Scope] icon → click [Properties]. In the [DNS] sheet of the displayed dialog box, select [Automatically update DHCP client information in DNS] → [Update DNS only if DHCP client requests].*
- *If you have a DHCP server running Windows 2003 Server that uses the DHCP service and want to register the machine's DNS record, configure the following settings in the DHCP server:*
  - *In the DHCP server, right-click the [Scope] icon → click [Properties]. In the [DNS] sheet of the displayed dialog box, select [Enable DNS dynamic updates according to the settings below] → [Dynamically update DNS A and PTR (Pointer Record) records only if requested by the DHCP clients].*
  - *In the Active Directory environment, right-click the icon of the DHCP server you are using → select [Properties]. In the [Advanced] sheet of the displayed dialog box, click [Credentials]. In the [DNS dynamic update credentials] dialog box, enter the user name, domain, and password for the Active Directory.*

8 On the IPv4 Settings screen, press [IP Address Range Settings] → specify the following.

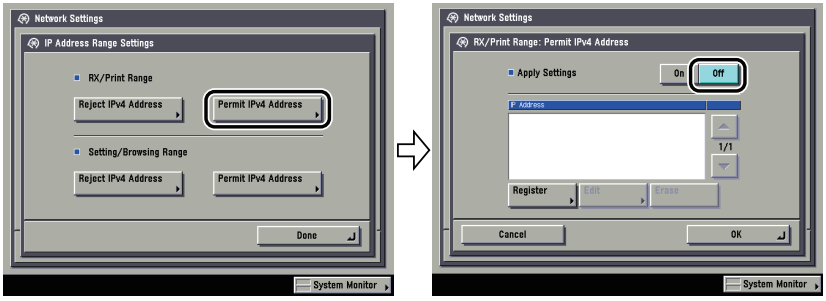
IMPORTANT

You can maintain security by setting the range of IPv4 addresses for computers that can obtain access to the machine.

- *Once you set the range of IPv4 addresses of computers on which items for the machine can be set or browsed, it is not possible to use the Remote UI on computers whose IPv4 addresses are not allowed; a utility on the computers cannot be used to set or browse detailed information concerning the machine.*
- *Once you set the range of IPv4 addresses of computers from which data (print/fax/I-fax job) can be sent to the machine, the machine rejects data sent from computers whose IPv4 addresses are not allowed. (Optional equipment is required to print or send a fax from a computer. For the equipment needed, see "Optional Equipment and System Requirements for Connecting to a Network," on p. 3-2.)*

● If you do not want to restrict the IPv4 addresses of computers from which data (print/fax/I-fax job) can be sent to the machine:

☐ <Apply Settings> of [Permit IPv4 Address] for <RX/Print Range>: [Off]

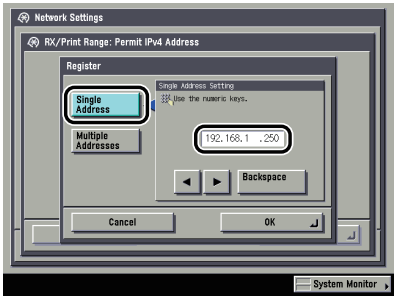


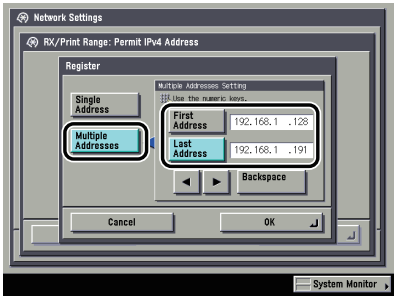
☐ <Apply Settings> of [Reject IPv4 Address] for <RX/Print Range>: [Off]

● **If you want to restrict the IPv4 addresses of computers from which data (print/fax/I-fax job) can be sent to the machine:**

☐ <Apply Settings> of [Permit IPv4 Address] for <RX/Print Range>: [On]

Press [Register] → store only one IPv4 address or a range of IPv4 addresses that are to be permitted.





☐ <Apply Settings> of [Reject IPv4 Address] for <RX/Print Range>: [On]

Press [Register] → store only one IPv4 address or a range of IPv4 addresses that are to be rejected.

● **If you do not want to restrict the IPv4 addresses of computers on which the machine setting items can be set or browsed (using the Remote UI or utility):**

☐ <Apply Settings> of [Permit IPv4 Address] for <Setting/Browsing Range>: [Off]

☐ <Apply Settings> of [Reject IPv4 Address] for <Setting/Browsing Range>: [Off]

● **If you want to restrict the IPv4 addresses of computers on which the machine setting items can be set or browsed (using the Remote UI or utility):**

☐ <Apply Settings> of [Permit IPv4 Address] for <Setting/Browsing Range>: [On]

Press [Register] → store only one IPv4 address or a range of IPv4 addresses that are to be permitted.

☐ <Apply Settings> of [Reject IPv4 Address] for <Setting/Browsing Range>: [On]

Press [Register] → store only one IPv4 address or a range of IPv4 addresses that are to be rejected.

IMPORTANT

- *You can register up to eight IPv4 addresses or IPv4 address ranges.*
- *The IPv4 address '0.0.0.0' cannot be specified.*
- *The value of [First Address] for [Multiple Addresses] should be smaller than or equal to that of [Last Address].*
- *If <Apply Settings> is set to 'Off' for both [Permit IPv4 Address] and [Reject IPv4 Address], all IPv4 addresses are permitted.*
- *If <Apply Settings> is set to 'Off' for [Permit IPv4 Address] and <Apply Settings> is set to 'On' for [Reject IPv4 Address], IPv4 addresses that are beyond the specified range of [Reject IPv4 Address] are permitted.*
- *If <Apply Settings> is set to 'On' for [Permit IPv4 Address] and <Apply Settings> is set to 'Off' for [Reject IPv4 Address], IPv4 addresses that are beyond the specified range of [Permit IPv4 Address] are not permitted.*
- *If <Apply Settings> for both [Permit IPv4 Address] and [Reject IPv4 Address] is set to 'On', IPv4 addresses that are beyond the ranges of both [Permit IPv4 Address] and [Reject IPv4 Address] are not permitted.*
- *If <Apply Settings> for both [Permit IPv4 Address] and [Reject IPv4 Address] is set to 'On', IPv4 addresses that are within the ranges of both [Permit IPv4 Address] and [Reject IPv4 Address] are not permitted.*
- *If the usage of a protocol or print application is not permitted on your device, it cannot be used even after its IPv4 address is permitted on the machine; on your device, configure the settings to permit the protocol or print application.*

NOTE

This machine logs attempts to gain access from IPv4 addresses that it has been set to reject. For instructions on how to refer to the access log, see e-Manual > Network.

TCP/IPv6 Settings

This section describes the procedure for setting TCP/IPv6 using the control panel. After specifying the settings for TCP/IPv6, follow the procedure in "Settings Common to TCP/IPv4 and TCP/IPv6," on p. 5-17 to specify the required settings, and the procedure in "Confirming TCP/IPv6 Settings," on p. 5-25 to check whether the network settings are correct. If the settings for TCP/IPv4 are already specified and you have finished specifying the settings common to TCP/IPv4 and TCP/IPv6, only check the network settings after completing this procedure. If you want to use IPv4 communications at the same time, follow the procedure in "TCP/IPv4 Settings," on p. 5-3 to specify the required settings, and the procedure in "Confirming TCP/IPv4 Settings," on p. 5-24 to check the settings.

The machine can use up to seven of the following IPv6 addresses. With IPv6 communication, multiple IPv6 addresses can be used at the same time.

IMPORTANT

If the IPv6 address assigned to the machine is the same as another node, you may not be able to perform IPv6 communication, even though an IPv6 address is displayed on the screen.

■ Link local address (1)

An address that is only valid within the same link. A link local address is automatically set using a specific prefix (fe80::) and an interface identifier generated from the MAC address of the machine. When the machine is using the functions of IPv6, one link local address is always registered.

■ Manual address (0 or 1)

A fixed address that is set from the control panel.

■ Stateless address (0 to 6)

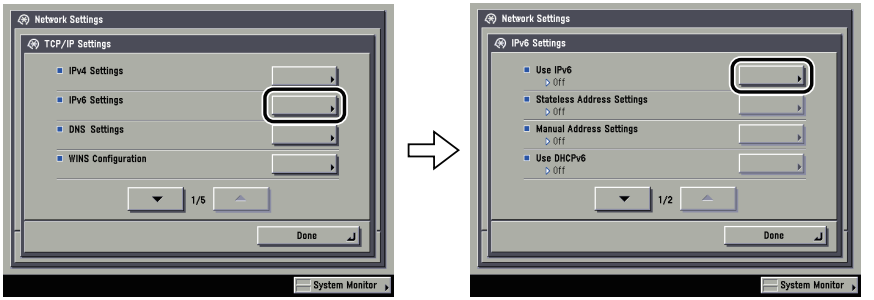
A stateless address is automatically set using the machine's MAC address and the prefix (information indicating the network belonged to) included in the RA (Router Advertisement) notified by the router when the machine is started.

■ Stateful address (0 or 1)

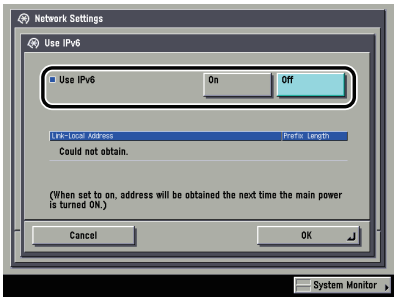
A stateful address can be obtained from a DHCP server using DHCPv6.

---

1 On the TCP/IP Settings screen, press [IPv6 Settings] → [Use IPv6].

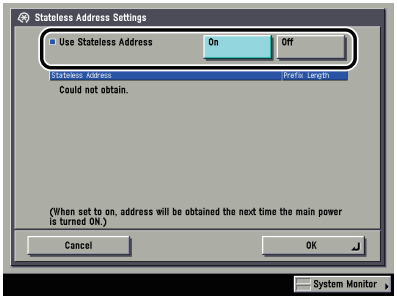


2 In [Use IPv6], specify the following.



[On] for <Use IPv6>: You can use an IPv6 network. A link local address is automatically set.

3 On the IPv6 Settings screen, press [Stateless Address Settings] → specify the following.

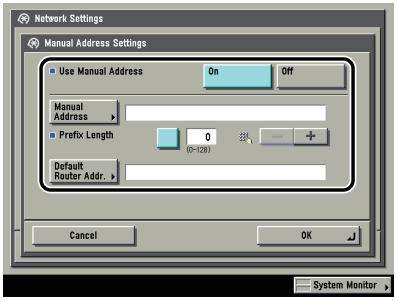


[On] for <Use Stateless Address>: A stateless address is automatically set when the machine is started.

NOTE

The stateless address is discarded when the machine is restarted (with the machine's main power switch ON).

4 On the IPv6 Settings screen, press [Manual Address Settings] → specify the following.



[On] for <Use Manual Address>: You can set the IPv6 address manually.

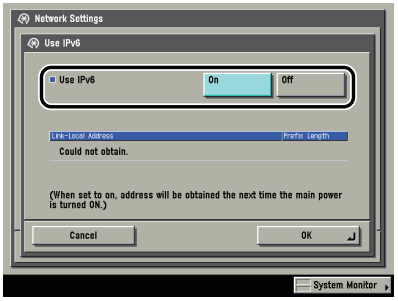
Enter the IPv6 address value in [Manual Address] and the IPv6 address prefix length in [Prefix Length].

Enter the default router address value in [Default Router Addr.]. If you do not want to specify the default router address, leave [Default Router Addr.] blank.

IMPORTANT

- *You cannot use a manual address if you leave [Manual Address] blank. You also cannot set any of the following types of address for [Manual Address]:*
  - *Multicast address*
  - *Address composed entirely of zeros*
  - *IPv4 compatible address (an IPv6 address with the top 96 bits set to '0' and an IPv4 address in the lower 32 bits)*
  - *IPv4 mapped address (an IPv6 address with the top 96 bits set to '0:0:0:0:0:ffff:' and an IPv4 address in the lower 32 bits)*
- *You cannot enter a multicast address or an address composed entirely of zeros in [Default Router Addr.].*

5 On the IPv6 Settings screen, press [Use DHCPv6] → specify the following.



[On] for <Use DHCPv6>: You can use DHCPv6 to obtain a stateful address from a DHCP server.

6 On the IPv6 Settings screen, press [IP Address Range Settings] → specify the following.

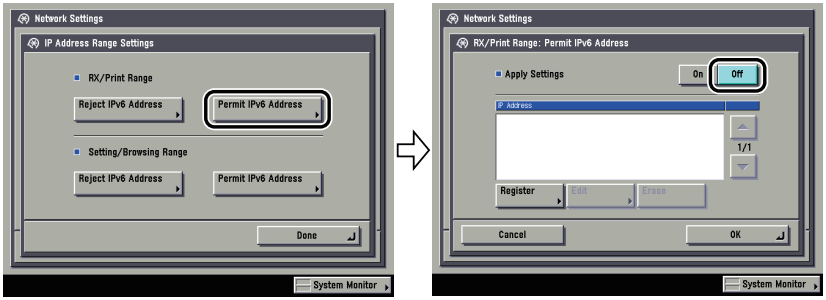
IMPORTANT

You can maintain security by setting the range of IPv6 addresses for computers that can obtain access to the machine.

- *Once you set the range of IPv6 addresses of computers on which items for the machine can be set or browsed, it is not possible to use the Remote UI on computers whose IPv6 addresses are not allowed; a utility on the computers cannot be used to set or browse detailed information concerning the machine.*
- *Once you set the range of IPv6 addresses of computers from which data (print/fax/I-fax job) can be sent to the machine, the machine rejects data sent from computers whose IPv6 addresses are not allowed. (Optional equipment is required to print or send a fax from a computer. For the equipment needed, see "Optional Equipment and System Requirements for Connecting to a Network," on p. 3-2.)*

● **If you do not want to restrict the IPv6 addresses of computers from which data (print/fax/I-fax job) can be sent to the machine:**

☐ <Apply Settings> of [Permit IPv6 Address] for <RX/Print Range>: [Off]

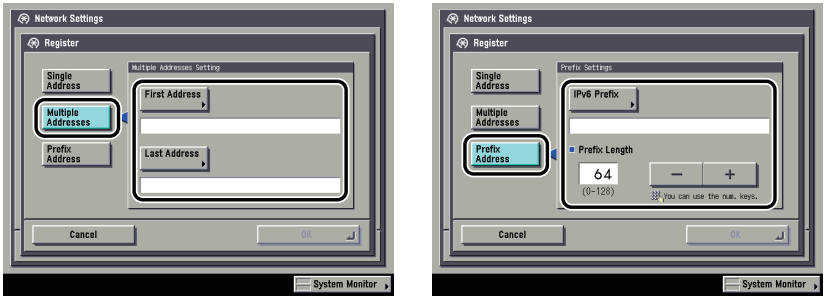


☐ <Apply Settings> of [Reject IPv6 Address] for <RX/Print Range>: [Off]

● **If you want to restrict the IPv6 addresses of computers from which data (print/fax/I-fax job) can be sent to the machine:**

☐ <Apply Settings> of [Permit IPv6 Address] for <RX/Print Range>: [On]

Press [Register] → store only one IPv6 address or a range of IPv6 addresses that are to be permitted. Also specify the prefix and prefix length for the IPv6 address.



☐ <Apply Settings> of [Reject IPv6 Address] for <RX/Print Range>: [On]

Press [Register] → store only one IPv6 address or a range of IPv6 addresses that are to be rejected. Also specify the prefix and prefix length for the IPv6 address.

● **If you do not want to restrict the IPv6 addresses of computers on which the machine setting items can be set or browsed (using the Remote UI or a utility):**

☐ <Apply Settings> of [Permit IPv6 Address] for <Setting/Browsing Range>: [Off]

☐ <Apply Settings> of [Reject IPv6 Address] for <Setting/Browsing Range>: [Off]

● If you want to restrict the IPv6 addresses of computers on which the machine setting items can be set or browsed (using the Remote UI or a utility):

☐ <Apply Settings> of [Permit IPv6 Address] for <Setting/Browsing Range>: [On]

Press [Register] → store only one IPv6 address or a range of IPv6 addresses that are to be permitted. Also specify the prefix and prefix length for the IPv6 address.

☐ <Apply Settings> of [Reject IPv6 Address] for <Setting/Browsing Range>: [On]

Press [Register] → store only one IPv6 address or a range of IPv6 addresses that are to be rejected. Also specify the prefix and prefix length for the IPv6 address.

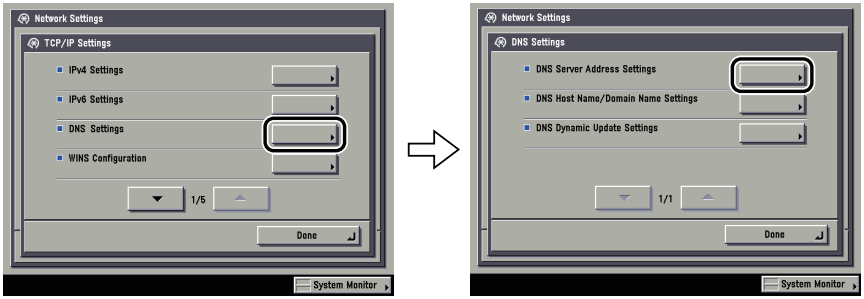
IMPORTANT

- *A total of eight (groups) of IPv6 addresses, ranges of IPv6 addresses, or IPv6 address prefixes can be set.*
- *You cannot specify a multicast address or an address composed entirely of zeros for an IPv6 address.*
- *If you enter '0' in [Prefix Length], all IPv6 addresses are not permitted.*
- *If you enter '128' in [Prefix Length], the IPv6 addresses of the machine are not permitted.*
- *If you want to enter a range of addresses, make sure that the number entered in [First Address] is less than the number entered in [Last Address].*
- *If <Apply Settings> is set to 'Off' for both [Permit IPv6 Address] and [Reject IPv6 Address], all IPv6 addresses are permitted.*
- *If <Apply Settings> is set to 'Off' for [Permit IPv6 Address] and <Apply Settings> is set to 'On' for [Reject IPv6 Address], IPv6 addresses that are beyond the range specified in [Reject IPv6 Address] are permitted.*
- *If <Apply Settings> is set to 'On' for [Permit IPv6 Address] and <Apply Settings> is set to 'Off' for [Reject IPv6 Address], IPv6 addresses that are beyond the range specified in [Permit IPv6 Address] are not permitted.*
- *If <Apply Settings> for both [Permit IPv6 Address] and [Reject IPv6 Address] is set to 'On', IPv6 addresses that are beyond the ranges specified in both [Permit IPv6 Address] and [Reject IPv6 Address] are not permitted.*
- *If <Apply Settings> for both [Permit IPv6 Address] and [Reject IPv6 Address] is set to 'On', IPv6 addresses that are within the ranges specified in both [Permit IPv6 Address] and [Reject IPv6 Address] are not permitted.*
- *If the usage of a protocol or print application is not permitted on your device, it cannot be used even if its IPv6 address is permitted on the machine. Configure the settings of the device to permit the protocol or print application.*

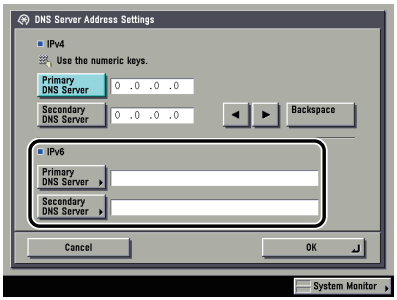
NOTE

This machine logs attempts to gain access from IPv6 addresses that it has been set to reject. For instructions on how to refer to the access log, see e-Manual > Network.

7 On the TCP/IP Settings screen, press [DNS Settings] → [DNS Server Address Settings].



8 In <IPv6>, specify the following.



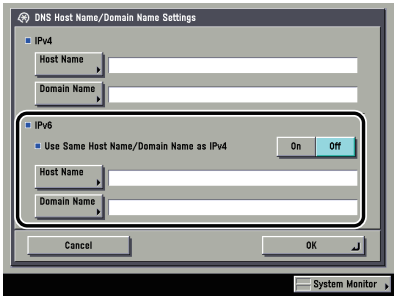
If you want to use dynamic DNS updating, enter the IPv6 address of the DNS server in [Primary DNS Server].

If you do not want to specify a secondary DNS server, leave [Secondary DNS Server] blank.

IMPORTANT

- *You cannot enter a multicast address or address composed entirely of zeros in [Primary DNS Server] or [Secondary DNS Server].*
- *If you set <Use DHCPv6> to 'On' in step 5, the IPv6 address of a DNS server you set manually will be overwritten.*

9 On the DNS Settings screen, press [DNS Host Name/Domain Name Settings] → in <IPv6>, specify the following.

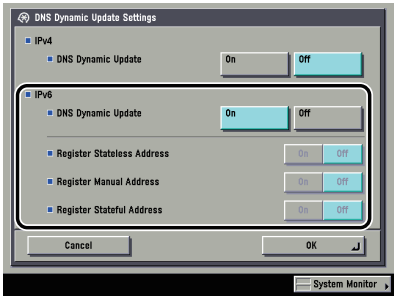


[On] for <Use Same Host Name/Domain Name as IPv4>: You can set the same host name or domain name used with IPv4 communication for IPv6 communication. If you set <Use Same Host Name/Domain Name as IPv4> to 'Off', enter the name of the machine in [Host Name] and the name of the domain the machine belongs to in [Domain Name]. It is necessary to set a host name and domain name if you want to use dynamic DNS updating.

IMPORTANT

If you set <Use DHCPv6> to 'On' in step 5, the domain name you set manually will be overwritten. Even if you set <Use Same Host Name/Domain Name as IPv4> to 'On', the domain name obtained from the DHCPv6 server is used.

10 On the DNS Settings screen, press [DNS Dynamic Update Settings] → in <IPv6>, specify the following.



[On] for <DNS Dynamic Update>: If your environment includes a dynamic DNS server, you can automatically register the IPv6 address, host name, and domain name set for the machine in the DNS server using dynamic DNS updating.

[On] for <Register Stateless Address>: You can automatically register a stateless address in the DNS server using dynamic DNS updating.

[On] for <Register Manual Address>: You can automatically register a manual address in the DNS server using dynamic DNS updating.

[On] for <Register Stateful Address>: You can automatically register a stateful address in the DNS server using dynamic DNS updating.

IMPORTANT

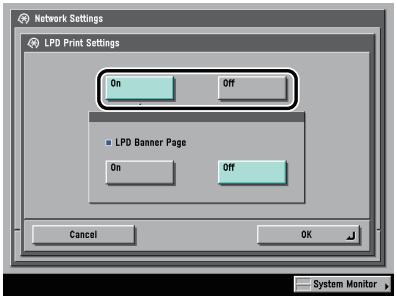
Windows 2000 Server and Windows Server 2003 do not support DHCPv6 servers.

Settings Common to TCP/IPv4 and TCP/IPv6

This section describes the procedure for specifying the settings common to TCP/IPv4 and TCP/IPv6 using the control panel. Specify the settings required for your network environment. If you want to use both TCP/IPv4 communications and TCP/IPv6 communications, specify the settings required for both protocols.

After performing this procedure, follow the procedure in "Confirming TCP/IPv4 Settings," on p. 5-24 and "Confirming TCP/IPv6 Settings," on p. 5-25 to check whether the network settings are correct.

1 On the TCP/IP Settings screen, press [LPD Print Settings] → specify the following.

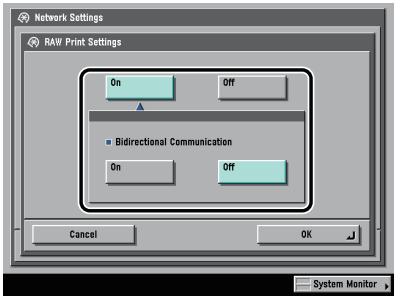


[On]: You can use LPD as the print application.

NOTE

- *You can only output a banner page if you are using the imageRUNNER 3245i/3235i, or the imageRUNNER 3245/3235/3230/3225 with the optional PCL Printer Kit or the optional PS Printer Kit.*
- *Output of a banner page is set on a print-job basis. Even if [On] is selected for <LPD Banner Page>, a banner page cannot be output for a print job unless it is set.*

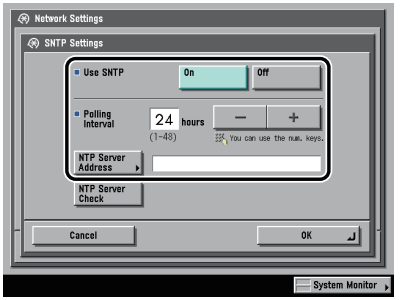
2 On the TCP/IP Settings screen, press [RAW Print Settings] → specify the following.



[On]: You can use Raw as the print application.

If you want to establish bidirectional communication using Port 9100, press [On] for <Bidirectional Communication>.

3 On the TCP/IP Settings screen, press [SNTP Settings] → specify the following.



[On] for <Use SNTP>: You can perform time synchronization using SNTP.

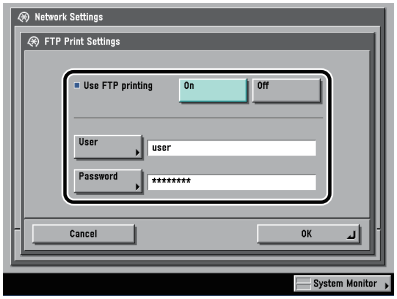
Select the interval for performing time synchronization in <Polling Interval>.

In [NTP Server Address], enter the NTP server IP address or host name.

IMPORTANT

- *In order to perform time synchronization through SNTP, it is necessary to set the time zone of the region in which you are using the machine in advance. For instructions on how to set the time zone, see e-Manual > Security.*
- *If you want to set the digital signature method (see e-Manual > Network) for the IKE (Internet Key Exchange) authentication when performing IPSec communication, it is necessary to set <Use SNTP> to 'On'.*

4 On the TCP/IP Settings screen, press [FTP Print Settings] → specify the following.



[On] for <Use FTP printing>: You can use FTP as the print application.

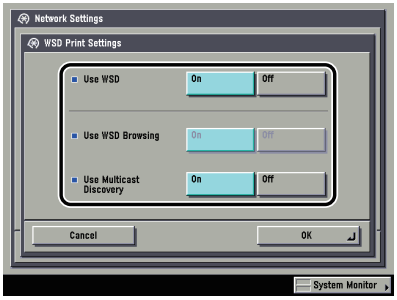
In [User], enter the login user name for access to the FTP server.

In [Password], enter the login password for access to the FTP server.

IMPORTANT

- *If you do not specify [User] and [Password], all user names and passwords will be valid.*
- *The password will appear in the job list as a user name if you enter "anonymous" as a login user name for access to an FTP server without specifying [User] and [Password], or if you enter "anonymous" in [User]. (To display the job list, press [System Monitor] → [Print] → [Log] on the touch panel display.)*
- *The port number is 21 and cannot be changed.*

5 On the TCP/IP Settings screen, press [WSD Print Settings] → specify the following.

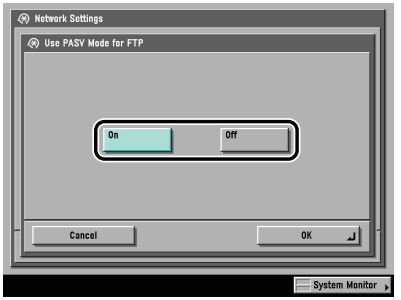


[On] for <Use WSD>: You can use WSD (Web Services for Devices) as the print application.

<Use WSD Browsing> is automatically set to 'On' if you set <Use WSD> to 'On', and enables device information to be obtained using WSD.

If you want to respond to multicast discovery requests, set <Use Multicast Discovery> to 'On'.

6 On the TCP/IP Settings screen, press [Use PASV Mode for FTP] → specify the following.

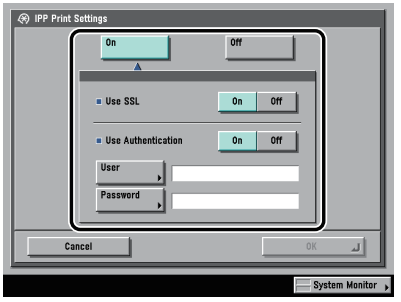


Set the PASV mode for FTP if you are using the imageRUNNER 3245i/3235i, or the imageRUNNER 3245/3235/3230/3225 with the optional Color Universal Send Kit.

IMPORTANT

Whether you use the PASV mode for FTP depends on the network environment you are using and the settings of the file server you are sending to. Before specifying the PASV mode for FTP, consult your network administrator.

7 On the TCP/IP Settings screen, press [IPP Print Settings] → specify the following.



[On]: You can use IPP as the print application. Pressing [On] for [IPP Print Settings] automatically sets [Use HTTP] to 'On'.

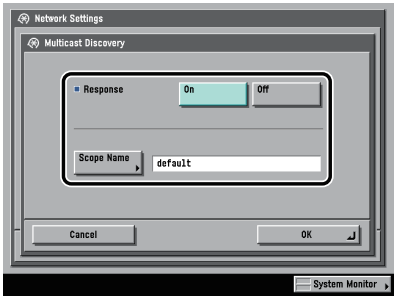
To use SSL to encrypt the IPP data, press [On] for <Use SSL>.

If you are using IPP authentication, press [On] for <Use Authentication> → enter the user name to use for IPP authentication in [User], and the password to use for IPP authentication in [Password].

IMPORTANT

In order to select [On] for <Use SSL> to allow SSL communication, a key pair is necessary. You can use the preinstalled key pair, or generate an original key pair with the machine, to set as the default key. For information on the default key, and instructions on how to generate an original key pair, see e-Manual > Network.

8 On the TCP/IP Settings screen, press [Multicast Discovery] → specify the following.



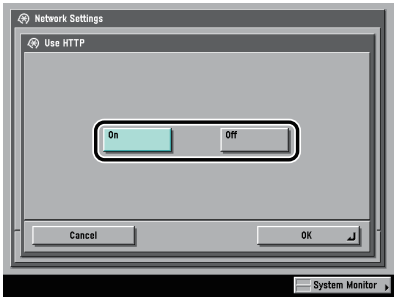
[On] for <Response>: You can use device information from other devices, such as an Address Book or Department ID Management settings, or respond to a multicast discovery from utilities.

Optionally, press [Scope Name] and enter the scope name for a multicast discovery.

NOTE

For instructions on how to deliver and share device information, such as the Address Book and Department ID Management settings with multiple devices, see e-Manual > Security.

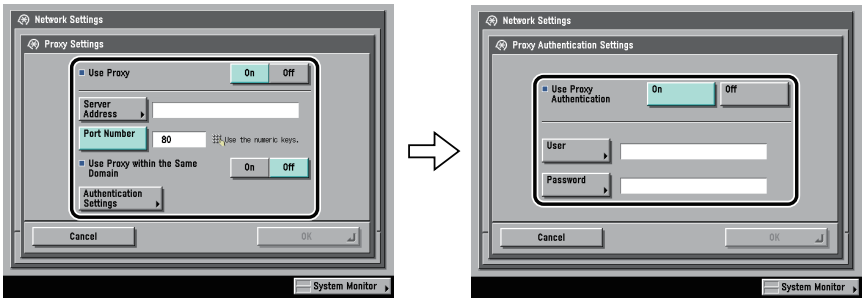
9 On the TCP/IP Settings screen, press [Use HTTP] → specify the following.



[On]: You can use the Remote UI or IPP.

Pressing [Off] for [Use HTTP] automatically sets [Remote UI] (in the System Settings screen) and [IPP Print Settings] to 'Off'.

10 On the TCP/IP Settings screen, press [Proxy Settings] → specify the following.



In the following cases, specify the proxy settings, according to the network environment you are using:

- If you are using the imageRUNNER 3245i/3235i, or the imageRUNNER 3245/3235/3230/3225 with the optional PS Printer Kit
- If you are using the optional Web Access Software (The Web Access Software is optional software for viewing web pages on the touch panel display of the machine. For details, see e-Manual > Web Access.)
- If you connect the WebDAV client to the Internet via a proxy, when using a WebDAV server

In [Server Address], enter a proxy server IP address or FQDN (for example, starfish.company.com).

In [Port Number], enter the port number of a proxy server using 0 - 9 (numeric keys).

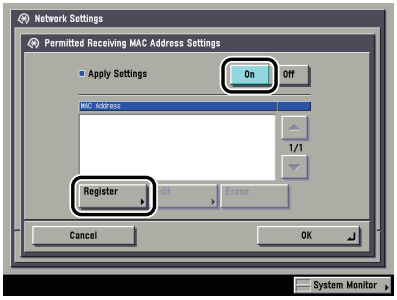
If you want to use a proxy in the same domain, press [On] for <Use Proxy within the Same Domain>.

If you want to use proxy authentication, press [Authentication Settings] → [On] for <Use Proxy Authentication> → enter the user name to use for proxy authentication in [User], and the password to use for proxy authentication in [Password].

IMPORTANT

If you are using the imageRUNNER 3245i/3235i, or the imageRUNNER 3245/3235/3230/3225 with the optional PS Printer Kit, you can print a file in the PDF or PS format by specifying its URL using the Remote UI. To print a file by specifying its URL using the Remote UI, you need to specify the proxy settings suitable for your environment. (Set in this step.)

11 On the TCP/IP Settings screen, press [Permitted Receiving MAC Address Settings] → specify the following.

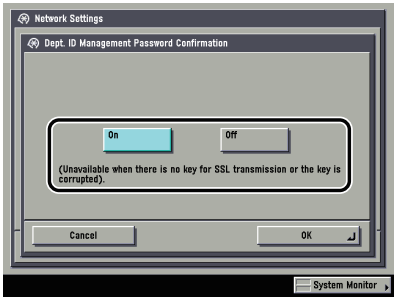


[On] for <Apply Settings>: You can enable a MAC address filter. Press [Register] → specify the MAC addresses to allow access to.

IMPORTANT

- *Up to 100 MAC addresses can be specified.*
- *If you select [On] for <Apply Settings>, you will become unable to access from MAC addresses which have not been specified. Check the MAC addresses carefully before specifying them. If the corresponding MAC address does not exist, you will become unable to access the network.*

12 On the TCP/IP Settings screen, press [Dept. ID Management Password Confirmation] → specify the following.



[On]: You can confirm the Department ID and password when printing using a driver that supports Windows Vista.

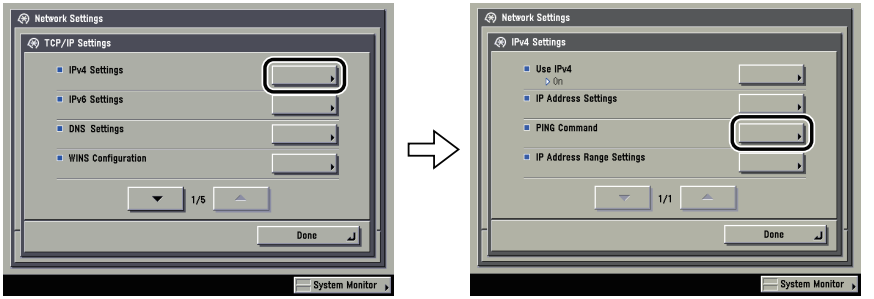
IMPORTANT

- *A key pair to use for encrypted SSL communication is required to confirm Department IDs and passwords. Even if you set [Dept. ID Management Password Confirmation] to 'On', Department IDs and passwords cannot be confirmed if the key pair is corrupted or invalid. In this case, erase the key pair and follow the procedure in e-Manual > Network to register a new key pair.*
- *If there is no key pair, you cannot set <Dept. ID Management Password Confirmation> to 'On'. You can use the preinstalled key pair, or generate an original key pair with the machine, to set as the default key. For information on the default key, and instructions on how to generate an original key, see e-Manual > Network.*

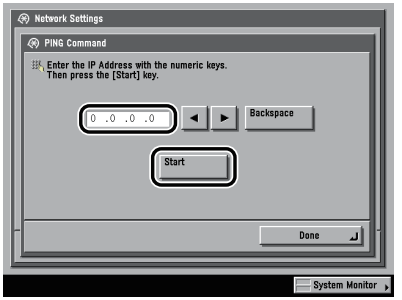
Confirming TCP/IPv4 Settings

The following is the procedure for confirming that the network connections are properly set.

1 On the TCP/IP Settings screen, press [IPv4 Settings] → [PING Command].



2 In [PING Command], check the following.



Pressing [Start] after entering the desired IP address existing on the network displays the result of the PING command on the touch panel display.

If this result is inappropriate, check the settings described in see "Interface Settings," on p. 4-9, see "TCP/IPv4 Settings," on p. 5-3 and see "Settings Common to TCP/IPv4 and TCP/IPv6," on p. 5-17.

IMPORTANT

- *If you set the startup time of the machine's network function by following the procedure in "Startup Time Settings," on p. 5-29, execute the PING command only after the time set as the startup time passes.*
- *If you connect the machine to a switching hub, the machine may not be able to connect to a network even though your network settings are appropriate. This problem may be resolved by delaying the startup of network communications for the machine. See "Startup Time Settings," on p. 5-29 for information on how to set up the startup time.*

3 On the TCP/IP Settings screen, press [SNTP Settings] → check the following.

After pressing [NTP Server Check], if <OK> is displayed, time synchronization is working correctly via SNTP.

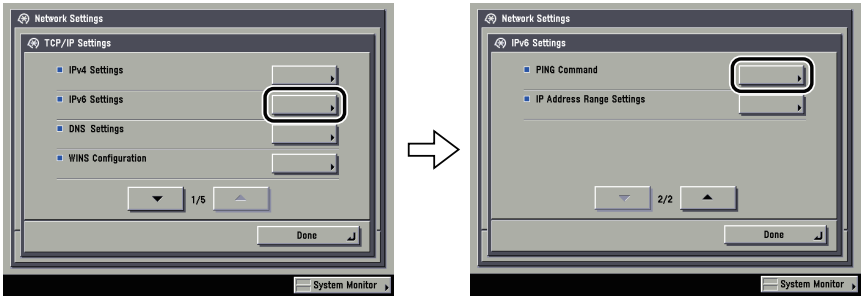
If <Error> is displayed, check the settings for [NTP Server Address] set in step 3 of see "Settings Common to TCP/IPv4 and TCP/IPv6," on p. 5-17.

Even if you perform [NTP Server Check], time settings are not updated. Check that communications are possible between the machine and the NTP server.

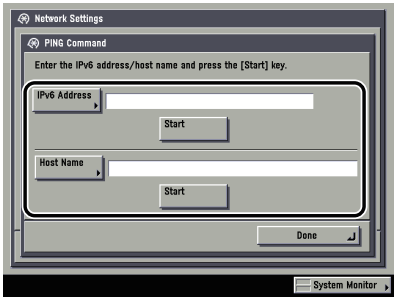
Confirming TCP/IPv6 Settings

The following is the procedure for confirming that the TCP/IPv6 network connections are properly set.

1 On the TCP/IP Settings screen, press [IPv6 Settings] → [PING Command].



2 In [PING Command], check the following.



Pressing [Start] after entering an IPv6 address existing on the network in [IPv6 Address] displays the result of the PING command on the touch panel display.

Pressing [Start] after entering the machine's host name in [Host Name] displays the result of the PING command on the touch panel display.

If this result is inappropriate, check the settings described in "Interface Settings," on p. 4-9, "Confirming TCP/IPv6 Settings," on p. 5-25 and see "Settings Common to TCP/IPv4 and TCP/IPv6," on p. 5-17.

IMPORTANT

- *If you set the startup time of the machine's network functions by following the procedure in "Startup Time Settings," on p. 5-29, execute the PING command only after the time set as the startup time passes.*
- *If you connect the machine to a switching hub, the machine may not be able to connect to a network even though your network settings are appropriate. This problem may be resolved by delaying the startup of network communications for the machine. See "Startup Time Settings," on p. 5-29 for information on how to set up the startup time.*

3 On the TCP/IP Settings screen, press [SNTP Settings] → check the following.

After pressing [NTP Server Check], if <OK> is displayed, time synchronization is working correctly via SNTP.

If <Error> is displayed, check the settings for [NTP Server Address] set in step 3 of see "Settings Common to TCP/IPv4 and TCP/IPv6," on p. 5-17.

Even if you perform [NTP Server Check], time settings are not updated. Check that communications are possible between the machine and the NTP server.

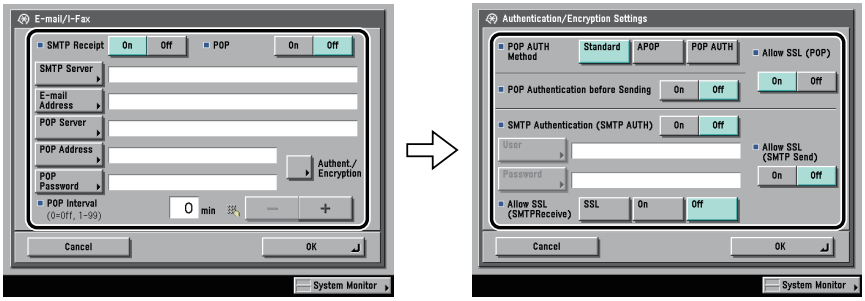
E-Mail/I-Fax Settings

IMPORTANT

Optional equipment is required to use the e-mail/I-fax functions if you are using the imageRUNNER 3245/3235/3230/3225. For the equipment needed, see "Optional Equipment and System Requirements for Connecting to a Network," on p. 3-2.

1 On the Network Settings screen, press [E-mail/I-Fax].

2 Specify the mail server for receiving e-mail/I-faxes.



The machine supports both the SMTP and POP3 functions.

The machine can receive I-fax images and communication error notices only.

● If you want to receive e-mail/I-faxes using the machine's own SMTP receiving function:

☐ Register the host name of the machine with the DNS server → specify the following.

Press [On] for <SMTP Receipt> → press [Off] for <POP>.

In [E-mail Address], enter the e-mail address your machine will use. You can specify any user name (the part of the address located in front of the @ symbol). Enter the host name after the "@" symbol in the e-mail address.

If you select [SSL] for <Allow SSL (SMTP Receive)>, reception of only data encrypted using SSL is allowed and communications from the host not using SSL are rejected.

If you select [On] for <Allow SSL (SMTP Receive)>, depending on the request from the host, reception of data encrypted using SSL is allowed only when there is a request from the host.

IMPORTANT

- *Even if you select [On] for <Allow SSL (SMTP Receive)>, the data will not be encrypted if the SMTP host does not support encryption.*
- *In order to select [SSL] or [On] for <Allow SSL (SMTP Receive)> to allow SSL transmission, it is necessary to generate a key pair in advance. For instructions on how to generate a key pair, see e-Manual > Network.*

● If you want to receive e-mail/I-faxes using a POP server:

☐ Press [On] for <POP> → press [Off] for <SMTP Receipt>.

In [E-mail Address], enter the e-mail address your machine will use.

In [POP Server], enter the IP address or name of the POP server using the keyboard on the touch panel display.

In [POP Address], enter the login name for access to the POP server.

In [POP Password], enter the password for access to the POP server.

Set <POP Interval> to the interval you want the POP server to check for incoming e-mail. If the interval is set to '0', the POP server is not checked automatically. For instructions on how to manually check the POP server, see e-Manual > Send/Fax.

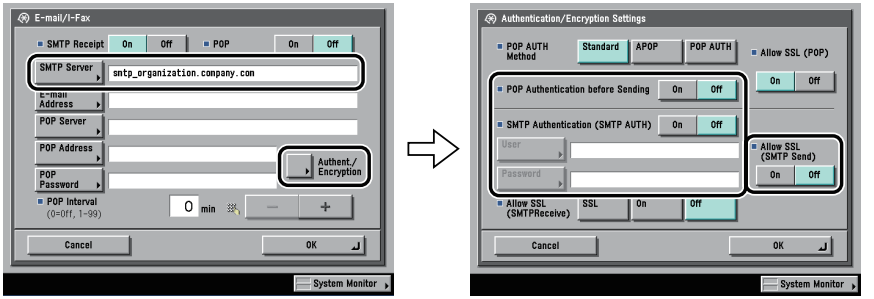
Select the authentication method supported by the POP server from [Standard], [APOP], or [POP AUTH] for <POP AUTH Method>.

If you want to send encrypted data, press [On] for <Allow SSL (POP)>.

IMPORTANT

- *If the POP server does not support SSL encryption, data is not encrypted when [On] is selected for <Allow SSL (POP)>.*
- *In order to select [On] for <Allow SSL (POP)> to allow SSL transmission, it is necessary to generate a key pair in advance. For instructions on how to generate a key pair, see e-Manual > Network.*

3 Specify the mail server for sending e-mail/I-faxes.



● If you are using an SMTP server that requires POP before SMTP (method for authenticating users who have logged in the POP server before sending e-mail):

☐ In [SMTP Server], enter the IP address or name of the SMTP server using the keyboard on the touch panel display.

Press [On] for <POP Authentication before Sending> → press [Off] for <SMTP Authentication (SMTP AUTH)>.

● If you are using an SMTP server that requires SMTP Authentication (method for authenticating users who have logged in the SMTP server before sending e-mail):

☐ In [SMTP Server], enter the IP address or name of the SMTP server using the keyboard on the touch panel display.

Press [On] for <SMTP Authentication (SMTP AUTH)> → press [Off] for <POP Authentication before Sending>.

In [User], enter the user name used for logging in to the SMTP server. If you are using a Microsoft SMTP server, enter the user name in [User] using the following format: user name@domain name.

In [Password], enter the password used for logging in to the SMTP server.

To encrypt data to be sent using SSL, select [On] for <Allow SSL (SMTP Send)>.

IMPORTANT

If the SMTP host does not support encryption, data is not encrypted when [On] is selected for <Allow SSL (SMTP Send)>.

● **If you are using an SMTP server that does not require authentication for sending e-mail:**

☐ In [SMTP Server], enter the SMTP server IP address or name using the keyboard on the touch panel display.

Press [Off] both for <SMTP Authentication (SMTP AUTH)> and <POP Authentication before Sending>.

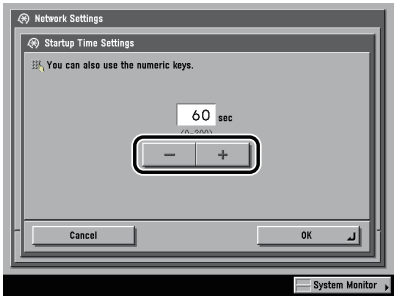
Startup Time Settings

If you connect the machine to a switching hub, it may not be able to connect to a network even though your network settings are set correctly.

This occurs because the spanning tree process performed between switching hubs prevents them from communicating with each other immediately after the machine connects to a switching hub.

In this case, use the following procedure to delay the start of communication.

1 On the Network Settings screen, press [Startup Time Settings] → specify the following.



Press [-] or [+] to set the time period to delay the startup of network communications for the machine.

Setting Up a Computer as a File Server

To send data from the machine to a computer on your network, you need to specify the settings of the computer for receiving data.

You can send data over a TCP/IP network to any of the following:

- FTP server (Windows 2000/XP/Server 2003/Vista, UNIX, Linux, Mac OS X, imageWARE Document Manager Gateway)
- WebDAV server (Windows 2000 Server/2000 Professional/XP/Server 2003, UNIX, Linux, Mac OS X)
- Windows shared folder (Windows 2000/XP/Server 2003)
- Samba shared folder (UNIX/Linux/Mac OS X)

This section describes how to set up a computer as an FTP/WebDAV server.

For instructions on how to configure a Windows and Samba shared folder, see "Setting Up a Computer as a File Server," on p. 7-6.

IMPORTANT

- *Optional equipment is required to send data from the machine if you are using the imageRUNNER 3245/3235/3230/3225. For the equipment needed, see "Optional Equipment and System Requirements for Connecting to a Network," on p. 3-2.*
- *Samba 2.2.8a or later is supported.*
- *This section describes only the procedures for setting up a computer to receive data sent from the machine. To send data from the machine to a server on the network, you must enter an address setting from the control panel. For instructions on how to specify recipient address settings, see e-Manual > Send/Fax.*
- *The following procedure explains a sample FTP/WebDAV server setup. Depending on your environment, the actual setup procedure may differ.*

Windows 2000/XP/Server 2003/Vista

This section describes the procedures for using the default home directory under [Default FTP Site]. To use other settings, enter the FTP site and home directory by referring to the IIS documentation.

It is recommended that the FTP server be configured by the network administrator.

In the following procedures, items displayed on the screens for Windows 2000 are used. The items displayed may differ according to your operating system.

IMPORTANT

- *The use of Windows 2000 Server/XP Professional/Server 2003/Vista as an FTP server requires the installation of IIS. If IIS is not installed in the computer you are using, you will need to install the version of IIS for the operating system you are using before entering these settings. (See "System Requirements" in "Sending Data," on p. 3-6.) For installation procedures, see the manuals provided with your operating system.*
- *User authentication for access to FTP servers is performed using the local account database of Windows 2000 Server/XP Professional/Server 2003/Vista used as the FTP server. Therefore, it is not possible to use the account of a domain user registered in Windows 2000 Server/XP Professional/Server 2003/Vista to send data directly from the machine to FTP servers in other domains.*

NOTE

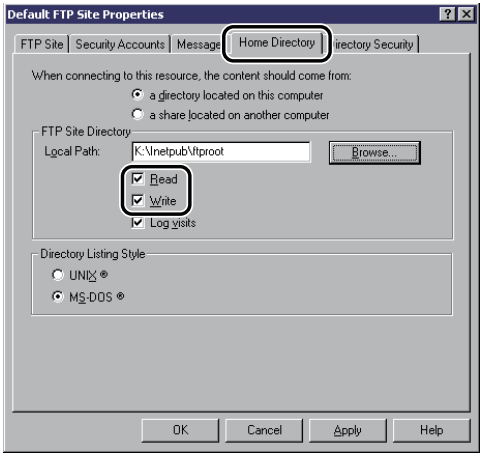
If you are using Windows Vista, a dialog box may be displayed while you are performing the procedure. In this case, enter a user name and password. For more information, see the manuals provided with the operating system.

1 Log on to Windows as a member of the group with access rights to the directory to be designated as the FTP site directory → start IIS.

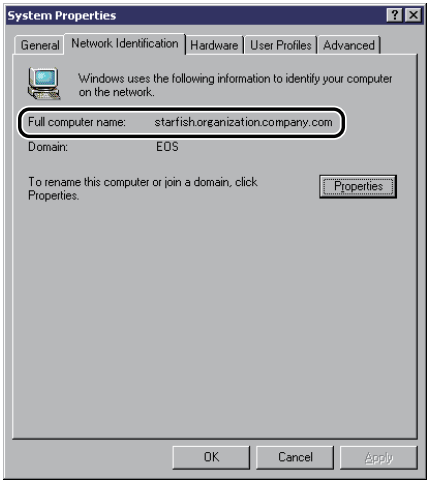
Depending on your environment, the access rights settings for a drive or directory may differ. For details, see the Windows manual.

2 In the [Default FTP Site Properties] dialog box, on the [Security Accounts] sheet, deselect the option which allows only anonymous connection.

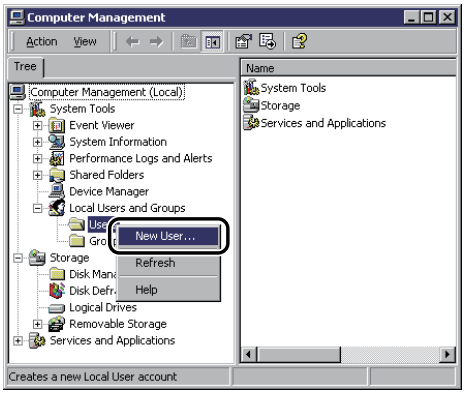
3 **In the [Default FTP Site Properties] dialog box, on the [Home Directory] sheet, select both [Read] and [Write].**



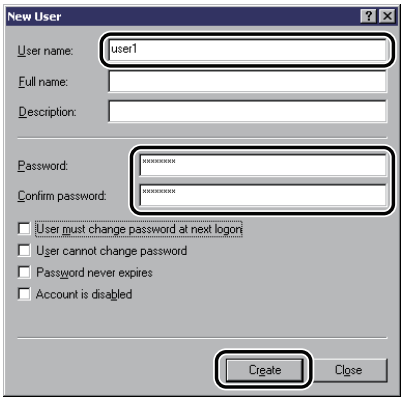
4 **Right-click [My Computer] → click [Properties] to open the [System Properties] dialog box → confirm [Full computer name].**



5 **Right-click [My Computer] → click [Manage] to open the [Computer Management] window → under [System Tools], in [Local Users and Groups], right-click the [Users] folder → click [New User].**



6 **In the [New User] dialog box, enter the user name in [User name] → enter the password in [Password] → re-enter the password in [Confirm Password] → click [Create].**



Enter a user name and a password not longer than 24 alphanumeric characters.

If [User must change password at next logon] is selected, any new users added must change their passwords in order to send data from the machine. (You cannot change the password from the control panel.)

NOTE

In the Active Directory environment, the procedures for setting up users differ from the above. For details, see the Windows manual.

7 Set a recipient address using the control panel.

Sample recipient setting:

- Server side settings:

  [Full Computer Name]: starfish.organization.company.com

  Create a directory named "share" in the specified FTP server's home directory "\Inetpub\ftproot", and then set "share" as the data destination.

- The machine's recipient settings:

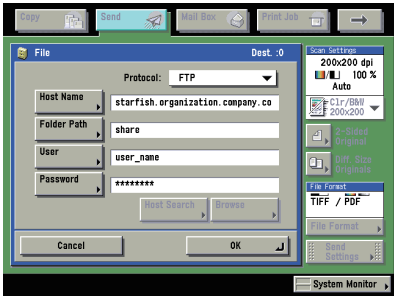
  <Protocol>: FTP

  [Host Name]: starfish.organization.company.com

  [Folder Path]: share

  [User]: User name entered in step 5

  [Password]: Password for the above user



IMPORTANT

- *To use [Full computer name], which was confirmed in step 4, as the host name for [Host Name] as shown in the above example, it is necessary to use a DNS server. (This applies even if the machine and the FTP server are in the same subnet.) If no DNS server is available, the host name setting should be specified using the IP address of the FTP server.*
- *Up to 128 alphanumeric characters can be entered for [Host Name] on the control panel. Also, up to 255 alphanumeric characters can be entered for [Folder Path].*
- *If you switch the language of the touch panel display, [Host Name] and [Folder Path] may not be displayed correctly.*
- *If you want to send to an IPv4 host using an FTP port other than port 21, set [Host Name] using the following format:*
  <IPv4 address of FTP server>:<Port number>
  Example: 192.168.1.21:21000
- *To send to an IPv6 host, set [Host Name] using the following format:*
  <IPv6 address>:<Port number>
  Example: [5aed:90a0:bc05:01d2:568a:2fc0:0001:12ee]:21000
- *If you set [Host Name] using DNS with both [IPv4 Settings] and [IPv6 Settings] set to 'On' on the TCP/IP Settings screen, IPv6 communication is used when sending to FTP servers.*

UNIX/Linux

For more information on the system requirements for using a UNIX/Linux computer as an FTP server, see "System Requirements" in “Sending Data,” on p. 3-6.

In some environments, detailed settings may be required in order to use FTP. For details, consult your network administrator.

1 Log in to a workstation as a superuser → set up the users who send documents from the machine, and their passwords.

Enter a user name and a password not longer than 24 alphanumeric characters.

2 Create a shared directory to be used for recipient addresses, and then enable read access and write access by the users who will be sending data.

3 Set a recipient address using the control panel.

Sample recipient setting:

- Server side settings:

  [Host Name]: starfish

  [Domain]: organization.company.com

  The user's home directory is /home/hsato, and /home/hsato/share is the data destination

- The machine's recipient settings:

  <Protocol>: FTP

  [Host Name]: starfish.organization.company.com

  [Folder Path]: Enter one of the following:

  share (when using relative path)
  /home/hsato/share (when using absolute path)

  [User]: User name entered in step 1

  [Password]: Password for the above user

For a sample screen, see the example of Windows 2000/XP/Server 2003/Vista screen (see p. 5-31).

IMPORTANT

- *To use the host name of the above example for [Host Name], it is necessary to use a DNS server. (This applies even if the machine and the FTP server are in the same subnet.) If no DNS server is available, the host name setting should be specified using the IP address of the FTP server.*
- *Up to 128 alphanumeric characters can be entered for [Host Name] on the control panel. Also, up to 255 alphanumeric characters can be entered for [Folder Path].*
- *If you set [Host Name] using DNS with both [IPv4 Settings] and [IPv6 Settings] set to 'On' on the TCP/IP Settings screen, IPv6 communication is used when sending to FTP servers.*
- *If you switch the language of the touch panel display, [Host Name] and [Folder Path] may not be displayed correctly.*
- *If you want to send to an IPv4 host using an FTP port other than port 21, set [Host Name] using the following format:*
  <IPv4 address of FTP server>:<Port number>
  Example: 192.168.1.21:21000
- *To send to an IPv6 host, set [Host Name] using the following format:*
  <IPv6 address>:<Port number>
  Example: [5aed:90a0:bc05:01d2:568a:2fc0:0001:12ee]:21000

Mac OS X

1 **Log in to Mac OS X as Administrator → start the FTP services under Mac OS X.**

2 **Click the [Sharing] icon → [Allow FTP access] → click [Show All] on the toolbar.**

3 **Click [Users] to open the [Users] window → enter the name of the user to whom you want to send data from the machine through Mac OS X → enter the password.**

Enter a user name, and a password not longer than 24 alphanumeric characters.

4 **Create a shared folder to which files are to be sent.**

Sample setting:

Create a folder named "iR_Folder" in the [Public] folder in the [Home] folder.

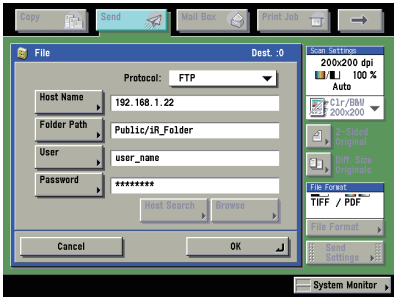
5 **Select the shared folder created in step 4 → select [Show Info] from the [File] menu → select [Privileges] from [Show] → enable read & write access to the folder by the owner and members of the group to which the owner belongs.**

6 Set a recipient address using the control panel.

Sample recipient setting:

- Server side settings (set using the above procedure):
  Create a folder named "iR_Folder" in the [Public] folder in the [Home] folder of the user named "yoko," and then specify the iR_Folder as the folder to which files are sent.
- The machine's recipient settings:

<Protocol>:	FTP
[Host Name]:	IP address of Macintosh
[Folder Path]:	Enter one of the following: Public/iR_Folder (If you enter a relative path) /Users/yoko/Public/iR_Folder (If you enter an absolute path)
[User]:	User name entered in step 3
[Password]:	Password for the above user



IMPORTANT

- *Up to 255 alphanumeric characters can be entered for [Folder Path] on the control panel.*
- *If you switch the language of the touch panel display, [Host Name] and [Folder Path] may not be displayed correctly.*
- *If you want to send to an IPv4 host using an FTP port other than port 21, set [Host Name] using the following format:*
  <IPv4 address of FTP server>:<Port number>
  Example: 192.168.1.21:21000
- *To send to an IPv6 host, set [Host Name] using the following format:*
  <IPv6 address>:<Port number>
  Example: [5aed:90a0:bc05:01d2:568a:2fc0:0001:12ee]:21000

FTP Server for imageWARE Document Manager Gateway

An FTP server for imageWARE Document Manager Gateway is required for receiving data from the machine, when used with imageWARE Document Manager Gateway.

1 Set up the FTP server for imageWARE Document Manager Gateway → specify the folder to store data sent from the machine.

For more information, see the manual provided with the imageWARE Document Manager Gateway.

NOTE

- *Up to 255 alphanumeric characters can be entered for a folder name.*
- *Enter a user name and a password not longer than 24 alphanumeric characters.*

2 On the FTP server for imageWARE Document Manager Gateway, export destination data.

For more information, see the manual provided with the imageWARE Document Manager Gateway.

IMPORTANT

- *A DNS server is needed to use an FQDN format (for example, starfish.organization.company.com) for the FTP server address. (A DNS server is also required if the machine and the FTP server are in the same subnet.) If you have not set up a DNS server, use IP addresses.*
- *Up to 128 alphanumeric characters can be entered for an FTP server address in the FQDN format.*

3 Use the Remote UI of the machine to import the destination data exported in step 2 into the machine.

For instructions on how to import the destination data, see e-Manual > Remote UI.

IMPORTANT

- *If the System Manager ID and password of the machine are set, the dialog box for entering a user name and password appears; enter the System Manager ID in [User Name] and password in [Password].*
- *If you switch the language of the touch panel display, [Host Name] and [Folder Path] may not be displayed correctly.*
- *If the FTP port number is set to a value other than 21, specify the following for [Host Name]:*
  <IP address of FTP server>:<Port number>
  Example: 192.168.1.21:21000

WebDAV Server Settings

The WebDAV sending function is a function for sending scanned image files, image files for received faxes, or image files sent from the User Inboxes or Memory RX Inbox of the machine, to a WebDAV server directory on the Internet or your intranet, using the WebDAV protocol.

This section describes the procedure for setting up a WebDAV publishing directory. Setting up a publishing directory enables users who have the necessary access privileges to manage files in the directory.

It is recommended that the WebDAV server be configured by the network administrator.

IIS for Windows 2000/2000 Server/XP/Server 2003

The procedure below uses items of Windows 2000 as an example. Depending on your environment, the items you see on the screen may differ.

IMPORTANT

- *If IIS is not installed in the computer you are using, you will need to install the version of IIS for the operating system you are using before entering these settings. (See "System Requirements" in "Sending Data," on p. 3-6.) For installation procedures, see the manuals provided with your operating system.*
- *Server authentication is required for sending to a WebDAV server. Enable authentication before using a WebDAV server. The authentication methods available for the server are Anonymous, Basic, or Digest authentication, and authentication errors will occur if you try to use another authentication method. If the Anonymous authentication method is enabled, access rights are assigned to all users, and IIS always performs anonymous authentication, even if either of the other two authentication methods are enabled. (The priority level is Anonymous authentication > Digest authentication > Basic authentication.) If a high level of security is required, disable anonymous authentication. Use the user names and passwords registered in the address book of the WebDAV server for the Basic and Digest authentication methods. For instructions on how to set the authentication method for IIS, see the IIS documentation.*
- *The machine does not support sending to a Windows Vista computer using WebDAV. However, it is possible to view documents sent to the WebDAV server on the network from Windows Vista.*
- *When connecting to a WebDAV server via a proxy with Digest authentication set using IIS 6.0, it is necessary to set <Use Chunked Encoding with WebDAV Sending> to 'On' from the control panel of the machine. For more information on this procedure, see e-Manual > Send/Fax.*

1 Right-click [My Computer] → in the [C:\Inetpub] folder, create a physical directory to use as the sending destination.

IMPORTANT

The physical directory cannot be created in the [C: \Inetpub\wwwroot] folder, because the default DACL of wwwroot differs from that of other directories.

2 Create a virtual directory.

- ☐ Start IIS → from the IIS snap-in, select the Web site to add a directory to.
- ☐ On the [Action] menu, point to [New] → select [Virtual Directory].
- ☐ Follow the instructions on the Virtual Directory Creation Wizard to complete the creation of the directory.

  Specify the directory path created in step 1 as a physical path to the virtual directory.

3 Select [Write] in the virtual directory properties to give access for writing files to the WebDAV clients.

If you are using Windows Server 2003, click [Allow] for [WebDAV] in [Web Service Extensions] in IIS Manager.

4 See the IIS documentation to specify the settings for SSL encrypted communication.

5 Set a recipient address from the control panel.

Sample recipient settings:

• Server side settings:

Create a physical directory named "C:\Inetpub\export\share\home\users\", and then create a virtual directory that links to the physical directory as the folder to which files are sent.

- The machine's address settings:

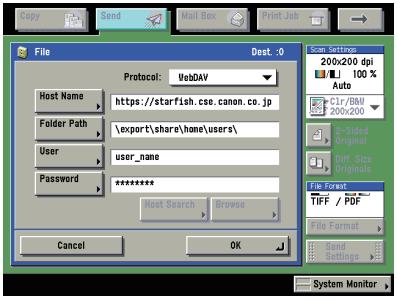
  <Protocol>: WebDAV

  [Host Name]: https://starfish.cse.canon.co.jp/

  [Folder Path]: \export\share\home\users\

  [User]: User name for the Basic and Digest authentication methods of the WebDAV server

  [Password]: Password for the Basic and Digest authentication method of the WebDAV server



IMPORTANT

- *Up to 128 alphanumeric characters can be entered for [Host Name] on the control panel. Also, up to 255 alphanumeric characters can be entered for [Folder Path].*
- *If you switch the language of the touch panel display, [Host Name] and [Folder Path] may not be displayed correctly.*
- *If the language of the touch panel display differs from the computer used as a master browser, [Host name] and [Folder path] may not be displayed correctly, or you may not be able to browse the directories.*
- *To send to an IPv6 host, set [Host Name] using the following format:*
  <IPv6 address>:<Port number>
  Example: [5aed:90a0:bc05:01d2:568a:2fc0:0001:12ee]:21000
- *If you set [Host Name] using DNS with both [IPv4 Settings] and [IPv6 Settings] set to 'On' on the TCP/IP Settings screen, IPv4 communication is used when sending to WebDAV servers.*

Apache for Windows 2000/2000 Server/XP/Server 2003/UNIX/Linux/Mac OS X

The following procedures describe how to create the "users/user_name/WebDAV" directory using the procedure for creating the directory under "C:/Program Files/Apache Group/Apache2" in the Windows file system as an example.

IMPORTANT

- *Apache 1.3 is provided with Mac OS X. If Apache is not installed in the computer you are using, install the version for the operating system you are using (downloadable from the Apache Software Foundation Web site at http://www.apache.org/.) before entering these settings. (See "System Requirements" in "Sending Data," on p. 3-6.) If you want to use SSL, install a version of Apache that supports SSL (downloadable from the Apache-SSL official Web site at http://www.apache-ssl.org/). After installing Apache, start it and confirm that the Apache service is working properly.*
- *If you are using Mac OS X, root has ownership of the Apache setting file (/etc/httpd/httpd.conf). In this case, perform one of the following procedures before specifying the WebDAV settings. For more information, see the documentation provided with your Macintosh or the Apache Software Foundation Web site at http://www.apache.org/.*
  - *Obtain root access from the Terminal, using the sudo or su command*
  - *In the Finder, temporarily change the permissions for the Apache setting file to give permission to the user who will set the WebDAV server (return the permissions for the Apache setting file to their original values after setting the WebDAV server.)*
- *Server authentication is required for sending to a WebDAV server. Enable authentication before using a WebDAV server. The authentication methods available for the server are the Basic and Digest authentication methods, and authentication errors will occur if you try to use another authentication method. If you set both the Basic and Digest authentication methods, the authentication method you set last will be enabled. Use the user names and passwords registered in the address book of the WebDAV server for authentication. For instructions on how to set authentication methods, see the Apache Software Foundation Web site at http://www.apache.org/.*
- *The machine does not support sending to a Windows Vista computer using WebDAV. However, it is possible to view documents sent to the WebDAV server on the network from Windows Vista.*

1 Edit httpd.conf.

☐ Erase # on the left of the line to enable the WebDAV modules.

Directive to be changed:

- Before change
  #LoadModule dav_module modules/mod_dav.so
  #LoadModule dav_fs_module modules/mod_dav_fs.so
- After change
  LoadModule dav_module modules/mod_dav.so
  LoadModule dav_fs_module modules/mod_dav_fs.so

☐ Specify the server name.

Directive to be changed:

- Before change
  #ServerName localhost:80
- After change
  #ServerName localhost:80
  ServerName Apache-Server.ccm.canon.co.jp:80

☐ Change the user directory.

Directive to be changed:

- Before change
  UserDir "My Documents/My Website"
- After change
  #UserDir "My Documents/My Website"
  UserDir "C:/Program Files/Apache Group/Apache2/users""

☐ To enable the DAV function, add the following directive:

```
<Location /~user_name/WebDAV>
    DAV On
</Location>
```

2 After specifying the settings for SSL encrypted communication, configure httpd.conf so that the Apache service starts with SSL support.

For more information, see the Apache Software Foundation Web site at http://www.apache.org/.

3 Restart Apache.

4 Set a recipient address from the control panel of the machine.

Sample recipient settings:

- Server side settings:

Create the "users/user_name/WebDAV" directory under "C:/Program Files/Apache Group/Apache2" as the folder to send files to.

- The machine's address settings:

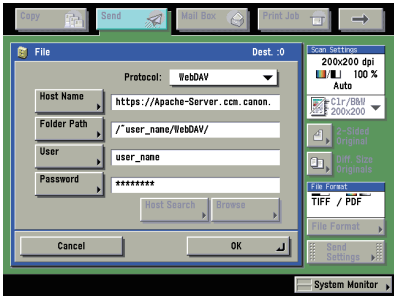
  <Protocol>: WebDAV

  [Host Name]: https://Apache-Server.ccm.canon.co.jp/

  [Folder Path]: /~user_name/WebDAV/

  [User]: User name for the Basic and Digest authentication methods of the WebDAV server

  [Password]: Password for the Basic and Digest authentication method of the WebDAV server



IMPORTANT

- *Up to 128 alphanumeric characters can be entered for [Host Name] on the control panel. Also, up to 255 alphanumeric characters can be entered for [Folder Path].*
- *If you switch the language of the touch panel display, [Host Name] and [Folder Path] may not be displayed correctly.*
- *If the language of the touch panel display differs from the computer used as a master browser, [Host name] and [Folder path] may not be displayed correctly, or you may not be able to browse the directories.*
- *To send to an IPv6 host, set [Host Name] using the following format:*
  <IPv6 address>:<Port number>
  Example: [5aed:90a0:bc05:01d2:568a:2fc0:0001:12ee]:21000
- *If you set [Host Name] using DNS with both [IPv4 Settings] and [IPv6 Settings] set to 'On' on the TCP/IP Settings screen, IPv4 communication is used when sending to WebDAV servers.*

Using a NetWare Network (Windows)

6
CHAPTER

This chapter describes settings and procedures for using the machine with a NetWare network.

NetWare Network Setup Procedures 6-2
Protocol Settings 6-3
Setting Up a Computer as a File Server 6-7

NetWare Network Setup Procedures

To use a NetWare network, it is necessary to perform the following procedures.

1 **NetWare Print Service Settings (See e-Manual > Network)**

Specify the NetWare print service settings. (Optional equipment is required to print or send a fax from a computer. For the equipment needed, see "Optional Equipment and System Requirements for Connecting to a Network," on p. 3-2.)
To specify the settings from the computer, use:

- NWADMIN or PCONSOLE (Novell software provided with NetWare)
- Canon utilities (NetSpot Device Installer, etc.)

2 **Protocol Settings (See "Protocol Settings," on p. 6-3.)**

Specify the protocol settings. To specify the settings, use:

- The machine's control panel
- The Remote UI (via a web browser)
- Canon utilities (NetSpot Device Installer, etc.)

3 **Computer Settings for Printing/Sending a Fax (See e-Manual > Network)**

Specify the settings of each computer you use for printing or sending a fax. (Optional equipment is required to print or send a fax from a computer. For the equipment needed, see "Optional Equipment and System Requirements for Connecting to a Network," on p. 3-2.)

4 **Computer Settings for a File Server (See "Setting Up a Computer as a File Server," on p. 6-7.)**

Specify the settings of the computer receiving data sent from the machine. (Optional equipment is required to send data if you are using the imageRUNNER 3245/3235/3230/3225. For the equipment needed, see "Optional Equipment and System Requirements for Connecting to a Network," on p. 3-2.)

IMPORTANT

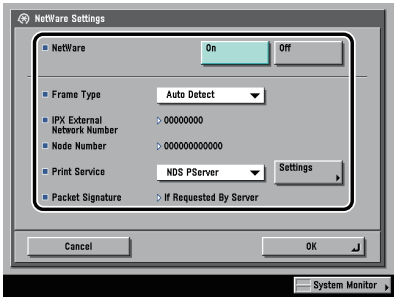
- *It is recommended that steps 1, 2, and 4 above be performed by the network administrator.*
- *To configure settings with software other than the control panel of the machine, NWADMIN, PCONSOLE, or NetSpot Device Installer, TCP/IPv4 protocol must be supported by your network environment (IPv6 is not supported).*

Protocol Settings

This section describes how to specify the protocol settings for the machine using the control panel. If you are configuring the settings for the first time, use the control panel of the machine.

After configuring the settings, you can change them using software other than the control panel of the machine. For details, see e-Manual > Network.

1 On the Network Settings screen, press [NetWare Settings] → specify the following.



<NetWare>: [On]

Select the frame type for your environment from the Frame Type drop-down list. If you select [Auto Detect], the frame type is automatically determined.

Select the print service specified in "NetWare Print Service Settings" (e-Manual > Network) from the Print Service drop-down list.

The following print services are available:

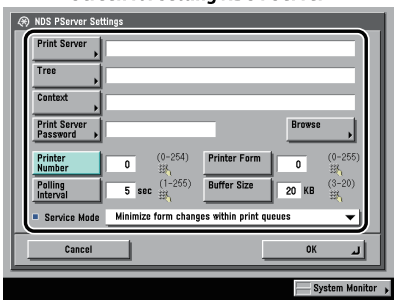
- [Bindery PServer]:
  Used in the queue server mode (Bindery mode print service).
- [RPrinter]:
  Used in the remote printer mode (Bindery mode print service).
- [NDS PServer]:
  Used in the queue server mode (NDS print service).
- [NPrinter]:
  Used in the remote printer mode (NDS print service).

IMPORTANT

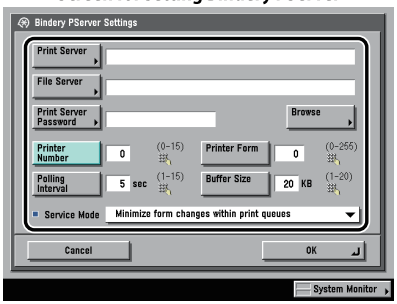
If [NetWare Settings] is not displayed, consult your local authorized Canon dealer.

2 Press [Settings] → specify the print service details.

Screen for setting NDS PServer



Screen for setting Bindery PServer



Specify the same tree, context, file server, and print server names that you specified in "NetWare Print Service Settings." (Settings differ depending on the print service. For print service settings, see e-Manual > Network.)

You can specify the print service settings either by selecting the desired options from the list on the screen that appears when you press [Browse], or by entering the desired character string for each item.

IMPORTANT

If you want to use [Browse] to specify each item, make sure you press [Browse] after the expiration of the time specified in "Startup Time Settings," on p. 5-29.

● Setting NDS PServer or NPrinter in the Browse screen (If the browse right is not limited to the specific user):

☐ Press [Skip Log In] in the Browse screen.

If the browse right is not limited to the specific user, you can specify the print service without having to log in to NetWare.

☐ Select the tree to which the desired print server belongs → select the context to which the desired print server belongs → select the desired print server.

☐ For NDS PServer, specify each item on the screen for setting NDS PServer if necessary.

● Setting NDS PServer or NPrinter in the Browse screen (If the browse right is limited to the specific user):

☐ In the Browse screen, press the tree to which you want to log in → select the context to which you want to log in.

☐ Press [Log In] → in the Enter Network Password screen, enter the name and password of a user to whom the browse right is granted.

If the browse right is limited to the specific user, it is necessary to log in to NetWare as a user to whom the browse right is granted.

Enter a user name prefixed with 'CN='. If the password is not specified, leave [Password] blank.

☐ Select the tree to which the desired print server belongs → select the context to which the desired print server belongs → select the desired print server.

☐ For NDS PServer, specify each item on the screen for setting NDS PServer if necessary.

● Setting Bindery PServer or RPrinter in the Browse screen:

☐ In the Browse screen, select the file server to which the desired print server belongs.

☐ In the Enter Network Password screen, enter the name and password of a user on the file server.

If the password is not specified, leave [Password] blank.

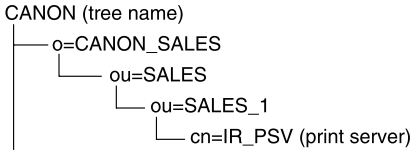
☐ Select the desired print server.

☐ Specify each item on the screen for setting Bindery PServer if necessary.

● Setting NDS PServer or NPrinter using the keyboard on the touch panel display:

☐ In [Tree], enter the name of the tree to which the desired print server belongs → in [Context], enter the name of the context to which the desired print server belongs → in [Print Server], enter the name of the desired print server.

Sample settings:



In an environment like the one above, the tree name and the context name are entered as follows:

Tree: <CANON>

Context: <ou=SALES_1.ou=SALES.o=CANON_SALES>
or <SALES_1.SALES.CANON_SALES>

☐ For NDS PServer, specify each of the other items if necessary.

● Setting Bindery PServer or RPrinter using the keyboard on the touch panel display:

- ☐ In [File Server], enter the name of the file server to which the desired print server belongs → in [Print Server], enter the name of the desired print server.
- ☐ For Bindery PServer, specify each of the other items if necessary.

Setting Up a Computer as a File Server

To send data from the machine to a computer on your network, you need to specify the settings of the computer for receiving data.

This section describes how to set up a computer as a file server.

IMPORTANT

- *Optional equipment is required to send data if you are using the imageRUNNER 3245/3235/3230/3225. For the equipment needed, see "Optional Equipment and System Requirements for Connecting to a Network," on p. 3-2.)*
- *To send a file to the NetWare server, specify the following NetWare settings for the machine. For instructions on how to specify the protocol settings, see "Protocol Settings," on p. 6-3.*
  - *<NetWare>: [On]*
  - *<Frame Type>: Frame type suitable for your environment*
- *This section describes only the procedures for setting up a computer receiving data sent from the machine. To send data from the machine to a server on the network, you must enter an address setting from the control panel. For instructions on how to specify recipient address settings, see e-Manual > Send/Fax.*
- *In some environments, additional detailed settings, such as authority settings, may be required. For details, consult the network administrator of the environment you are using.*

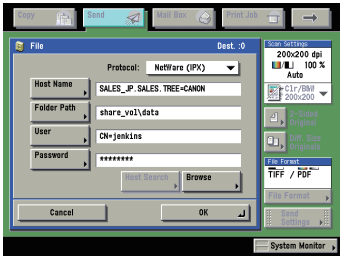
1 **Log in to NetWare as Administrator (or as a user of equivalent authority) → set up the users and passwords for sending data from the machine.**

Enter a user name, and a password not longer than 24 alphanumeric characters.

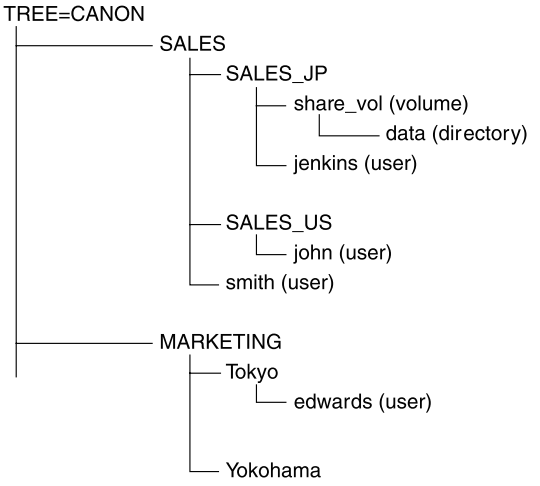
2 **Create a directory to be used for recipient addresses, and then enable read access and write access by the users who will be sending data.**

3 Set a recipient address from the control panel.

There are two methods for specifying the recipient address; selecting the desired address from the list that appears when you press [Browse], or entering the address using the keyboard on the touch panel display.



Sample recipient settings: NDS Mode Example



If you send data to the "data" directory under "share_vol" in the above tree structure, the settings of the host name and the folder path differ depending on the location of a user account.

- Example 1 If "SALES_JP" contains the user account "jenkins"

  [Host Name]: SALES_JP.SALES.TREE=CANON

  [Folder Path]: share_vol\data

  [User]: CN=jenkins

  [Password]: (Password for the above user)

• Example 2 If "SALES_US" contains the user account "john"

[Host Name]: SALES_US.SALES.TREE=CANON

[Folder Path]: share_vol.SALES_JP.\data (One dot is required before \data.)

[User]: CN=john

[Password]: (Password for the above user)

• Example 3 If "SALES" contains the user account "smith"

[Host Name]: SALES.TREE=CANON

[Folder Path]: share_vol.SALES_JP\data

[User]: CN=smith

[Password]: (Password for the above user)

• Example 4 If "Tokyo" contains the user account "edwards"

[Host Name]: Tokyo.MARKETING.TREE=CANON

[Folder Path]: share_vol.SALES_JP.SALES..\data (Two dots are required before \data.)

[User]: CN=edwards

[Password]: (Password for the above user)

Sample recipient settings: Bindery Mode Example:

• Server side settings:

[File Server Name]: TOPMAX_SERVER

Set \CSG in the SYS volume as the recipient.

• The machine's address settings:

<Protocol>: NetWare (IPX)

[Host Name]: TOPMAX_SERVER

[Folder Path]: SYS\CFG

[User]: (User name entered in step 1)

[Password] (Password for the above user)

IMPORTANT

- *If you want to use [Browse] to specify each item, make sure you press [Browse] after the expiration of the time specified in see "Startup Time Settings," on p. 5-29.*
- *Up to 128 alphanumeric characters can be entered for [Host Name] on the control panel. Also, up to 255 alphanumeric characters can be entered for [Folder Path].*
- *If you change the language of the touch panel display, [Host Name] and [Folder Path] may not be displayed correctly, or you may not be able to browse the directories.*
- *In NDS mode, note the following:*
  - *For the host name, specify the context by which a user logs in.*
  - *For the folder path, specify the relative path from the user context. You may omit the "xx=" portion, but the ".TREE=" portion with the tree name may not be omitted.*
  - *Enter a user name prefixed with "CN=."*
  - *Unless the same directory tree contains the user account name by which a user logs in and the volume object to which data is sent, dots are required according to the layer of the relative path. For example, one dot is required to indicate the layer one level above (Example 2), and two dots are required to indicate the layer two levels above (Example 4).*

Using a NetBIOS Network

7

CHAPTER

This chapter describes settings and procedures for using the machine with a NetBIOS network.

NetBIOS Network Setup Procedures 7-2

Protocol Settings 7-3
- TCP/IP Settings (IPv4) 7-3
- SMB and WINS Settings 7-3

Setting Up a Computer as a File Server 7-6
- Connecting to a TCP/IP Network 7-6
- Connecting to a NetBIOS Network and Configuring a Shared Folder 7-7

NetBIOS Network Setup Procedures

To use a NetBIOS network, it is necessary to perform the following procedures.

1 **Protocol Settings (See "Protocol Settings," on p. 7-3.)**

Specify the protocol settings. To specify the settings, use:

- The machine's control panel
- The Remote UI (via a web browser)lit.

2 **Computer Settings for Printing/Sending a Fax (See e-Manual > Network)**

Specify the settings of each computer you use for printing or sending a fax. (Optional equipment is required to print or send a fax from a computer. For the equipment needed, see "Optional Equipment and System Requirements for Connecting to a Network," on p. 3-2.)

3 **Computer Settings for a File Server (See "Setting Up a Computer as a File Server," on p. 7-6.)**

Specify the settings of the computer receiving data sent from the machine. (Optional equipment is required to send data if you are using the imageRUNNER 3245/3235/3230/3225. For the equipment needed, see "Optional Equipment and System Requirements for Connecting to a Network," on p. 3-2.)

IMPORTANT

- *It is recommended that steps 1 and 3 above be performed by the network administrator.*
- *The only base protocol supported by the machine for NetBIOS networks is TCP/IPv4. TCP/IPv6 and NetBEUI are not supported (SMB is used as a print application).*

Protocol Settings

This section describes how to specify the protocol settings for the machine using the control panel. If you are configuring the settings for the first time, use the control panel of the machine.

After configuring the settings, you can change them using software other than the control panel of the machine. For details, see e-Manual > Network.

TCP/IP Settings (IPv4)

1 Specify the TCP/IPv4 settings.

If you have not entered the TCP/IPv4 settings yet, enter them now. (For more information, see "TCP/IPv4 Settings," on p. 5-3, and see "Settings Common to TCP/IPv4 and TCP/IPv6," on p. 5-17.)

IMPORTANT

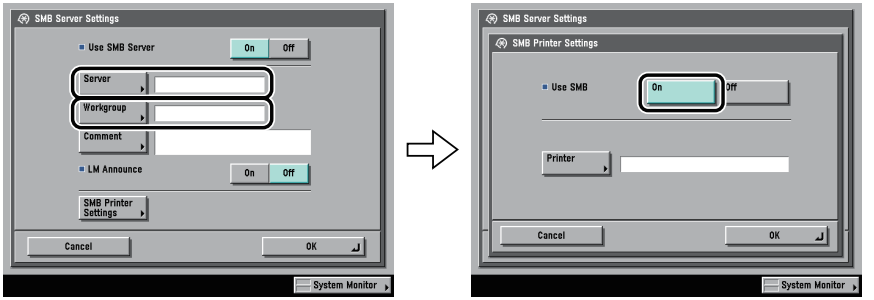
IPv6 is not supported.

SMB and WINS Settings

To use the machine on a NetBIOS network, specify the SMB settings. To resolve a name with WINS, specify the WINS settings using the following procedure.

WINS (Windows Internet Name Service) is a service for associating a NetBIOS name (which is a computer name or printer name on a NetBIOS network) with an IP address. To use WINS, specify the IP address settings for the WINS server.

1 On the Network Settings screen, press [SMB Server Settings] → specify the following.



[On] for <Use SMB Server>: You can use the SMB server.

In [Server], enter the name of a computer that the machine connects to, using the keyboard on the touch panel display. Be sure to enter a unique name that does not exist as a name for another computer or printer on the same network.

In [Workgroup], enter the name of the workgroup the machine belongs to, using the keyboard on the touch panel display.

If there is no workgroup on your environment, create a workgroup in the Windows environment, and then enter the workgroup name.

In [Comment], enter a comment about the printer, if necessary. If you display the printer information, the comment you specified here appears.

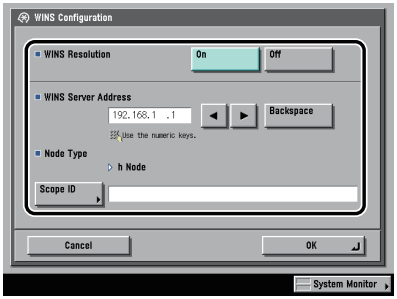
If you want the machine to notify the LAN Manager of its existence on the network, press [On] for <LM Announce>. If the LAN Manager does not have to refer to the machine, you can control the traffic over your network by selecting [Off].

To set up an SMB printer, press [SMB Printer Settings] → [On] for <Use SMB> → enter the printer name of the machine in [Printer].

IMPORTANT

- *You cannot enter the domain name as the workgroup name.*
- *You cannot enter a character string that includes blanks in [Server] and [Workgroup].*
- *Optional equipment is required to print or send a fax from a computer. For the equipment needed, see "Optional Equipment and System Requirements for Connecting to a Network," on p. 3-2.*
- *You cannot enter a character string including blanks in [Printer].*

2 On the TCP/IP Settings screen, press [WINS Configuration] → specify the following.



[On] for <WINS Resolution>: You can resolve the name with WINS. Enter the IPv4 address of a WINS server in [WINS Server Address].

Enter the [Scope ID] settings if a scope ID is set on the computer in the network environment you are using. The scope ID is an identifier for determining the range available to a printer or computer. The scope ID set here is used regardless of the setting for <WINS Resolution>.

IMPORTANT

- *If DHCP determines the IPv4 address, the IPv4 address obtained from a DHCP server is overwritten with the IPv4 address of a WINS server (obtained from the DHCP server), whenever possible.*
- *If you set a scope ID, the machine cannot communicate with any computer whose scope ID is different from the scope ID you set here.*
- *If a scope ID is not set on any of the computers in your network environment, leave [Scope ID] blank.*

Setting Up a Computer as a File Server

To send data from the machine to a computer on your network, you need to specify the settings of the computer for receiving data. You can send data over a NetBIOS network to a Windows or Samba (UNIX/Linux/Mac OS X) shared folder. This section describes how to configure a shared folder.

IMPORTANT

- *Samba 2.2.8a or later is supported.*
- *Optional equipment is required to send data if you are using the imageRUNNER 3245/3235/3230/3225. For the equipment needed, see "Optional Equipment and System Requirements for Connecting to a Network," on p. 3-2.)*
- *This section describes only the procedures for setting up a computer receiving data sent from the machine. To send data from the machine to a server on the network, you must enter an address setting from the control panel. For instructions on how to specify recipient address settings, see e-Manual > Send/Fax.*
- *The following procedures describe a sample shared folder configuration. Depending on your environment, the actual configuration procedure may differ.*

Connecting to a TCP/IP Network

A computer that receives data sent from the machine must have TCP/IP client software installed and must be enabled for TCP/IP network use. For details, see the manuals provided with your operating system.

You can send data over a TCP/IP network from the machine to an FTP server. For instructions on how to set up an FTP server, see "Setting Up a Computer as a File Server," on p. 5-30.

Windows 2000/XP/Server 2003/Vista

It is recommended that the file server be configured by the network administrator.

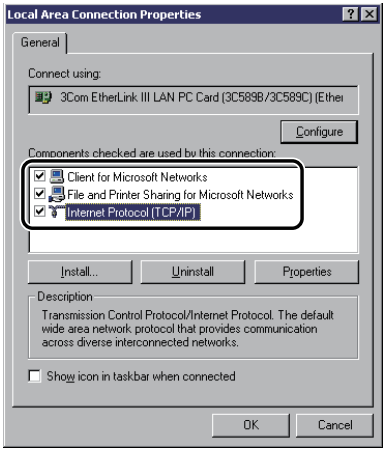
The number of users or clients that can access a server running Windows 2000/XP/Server 2003/Vista is limited. After this number of users or clients is reached, it is not possible to send to a server running Windows 2000/XP/Server 2003/Vista.

In the following procedures, items displayed on the screens for Windows 2000 are used. The items displayed may differ according to your operating system.

NOTE

If you are using Windows Vista, a dialog box may be displayed while you are performing the procedure. In this case, enter a user name and password. For more information, see the manuals provided with the operating system.

1 **Log on to Windows as an Administrator → in the [Local Area Connection Properties] dialog box, select all [Client for Microsoft Networks], [File and Printer Sharing for Microsoft Networks], and [Internet Protocol (TCP/IP)].**

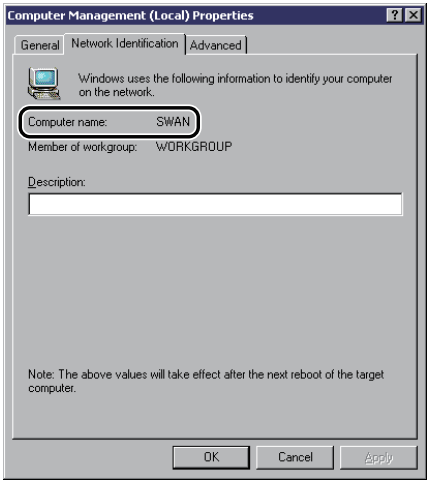


2 **Double-click [Internet Protocol (TCP/IP)] to open the [Internet Protocol (TCP/IP) Properties] dialog box.**

3 **On the [General] sheet, click [Advanced] → on the [WINS] sheet, click [Enable NetBIOS over TCP/IP].**

4 Restart the computer if prompted.

5 Confirm the computer name.

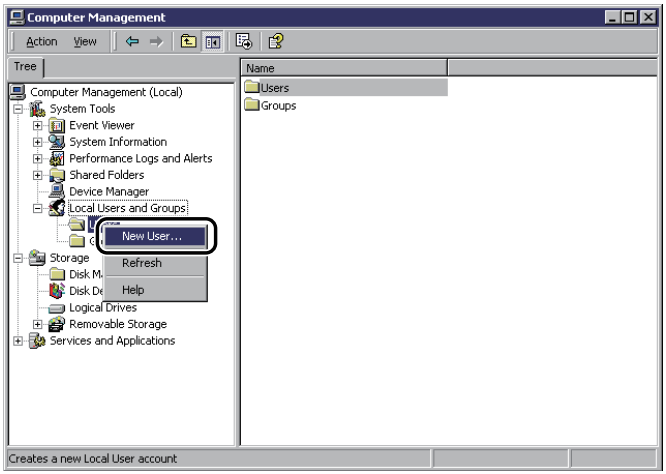


If you are using Windows 2000, right-click the [My Computer] icon → click [Manage] to open the [Computer Management] window. Right-click the [Computer Management (Local)] icon → click [Properties] to open the [Computer Management (Local) Properties] dialog box. On the [Network Identification] sheet, confirm the [Computer name] setting.

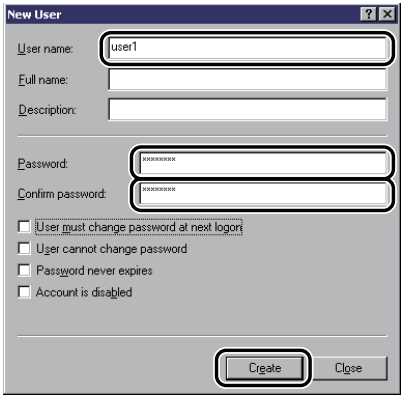
If you are using Windows XP/Server 2003, right-click [My Computer] → click [Properties] → on the [Computer Name] sheet, click [Change]. In the [Computer Name Changes] dialog box, click [More] to open the [DNS Suffix and NetBIOS Computer Name] dialog box → confirm [NetBIOS computer name].

If you are using Windows Vista, perform the same operation as with other operating systems to open the [DNS Suffix and NetBIOS Computer Name] dialog box → confirm the name in [NetBIOS computer name].

6 **Right-click the [My Computer] icon → click [Manage] to open the [Computer Management] window → under [System Tools], in [Local Users and Groups], from the [Users] folder, click [New User].**



7 **In the [New User] dialog box, enter the user name in [User name] → enter the password in [Password] → re-enter the password in [Confirm Password] → click [Create].**



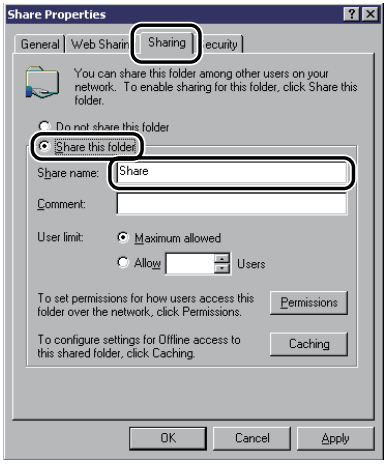
Enter a user name not longer than 20 alphanumeric characters, and a password not longer than 14 alphanumeric characters.

If [User must change password at next logon] is selected, any new users added must change their passwords in order to send data from the machine. (You cannot change the password from the control panel.)

NOTE

In an Active Directory environment, the procedures for setting up users differ from the above. For details, see the Windows manual.

8 Open the properties dialog box of the folder you want to share → on the [Sharing] sheet, click [Share this folder] → enter the share name in [Share name].

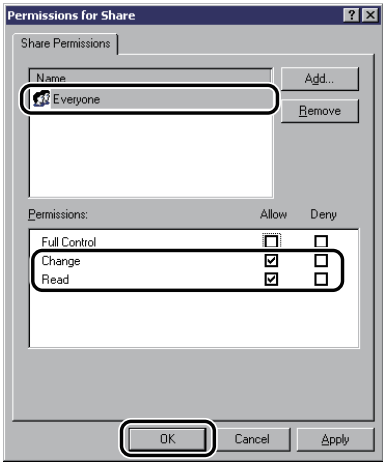


9 Set permissions.

● **To create a shared folder on a FAT or FAT32 format disk (If the [Security] tab is not displayed):**

☐ Click [Permissions] to display the dialog box.

Select or add the users or groups to whom you want to give access to the shared folder → under [Permissions], select both [Change] and [Read].



● To create a shared folder on an NTFS format disk:

☐ Display the [Security] sheet.

☐ Select or add the users or groups to whom you want to give access to the shared folder → under [Permissions], select both [Write] and [Read & Execute], or a higher access authority. For data in the folder, check both [Write] and [Read], or a higher access authority.

NOTE

- *To display the [Security] tab in Windows XP, open Folder Options → deselect [Use simple file sharing]. However, you can share folders and files with [Use simple file sharing] selected. Select or deselect [Use simple file sharing] to suit your environment. For more information, see the manual provided with Windows XP.*
- *In the Active Directory environment, the procedures for specifying the security settings of the shared folder differ from above. For more information, see the Windows manual.*

10 Set a recipient address using the control panel.

There are three methods for specifying the recipient address; selecting the desired address from the list that appears when you press [Browse], searching for the address by pressing [Host Search], or entering the address using the keyboard on the touch panel display.

Sample recipient setting:

- Server side settings (set and confirmed in the above step.):

  [Computer name]: swan

  [Share Name]: share

  Create a folder called 'Images' within share, and then specify Images as the recipient for sending.

- The machine's Recipient Settings:

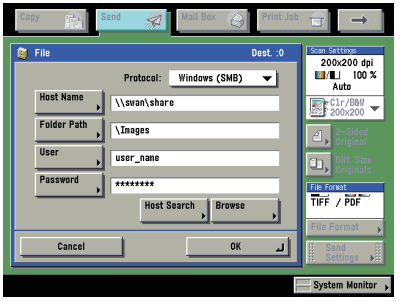
  <Protocol>: Windows (SMB)

  [Host Name]: \\swan\share (Shared folder path)

  [Folder Path]: \Images

  [User]: User name entered in the above step.

  [Password]: Password for the above user.



IMPORTANT

- *If you want to use [Browse] to specify each item, make sure you press [Browse] after the expiration of the time specified in see "Startup Time Settings," on p. 5-29.*
- *Up to 128 alphanumeric characters can be entered for [Host Name] on the control panel. Also, up to 255 alphanumeric characters can be entered for [Folder Path].*
- *If you change the language of the touch panel display, [Host Name] and [Folder Path] may not be displayed correctly, or you may not be able to browse the directories.*
- *If the language of the touch panel display differs from the computer used as a master browser, [Host Name] and [Folder Path] may not be displayed correctly, or you may not be able to browse the directories.*

NOTE

- *You can send data using the following formats. A DNS server is required for the latter case:*
  \\192.168.2.100\share
  \\host_name.organization.company.com\share
- *You can also specify the user name in the address using the following formats:*
  - *domain_name\user_name (up to 15 alphanumeric characters for the domain name, and up to 20 for the user name)*
  - *user_name@organization.company.com (up to 128 characters in total)*
    Note that the latter is only applicable when sending to a Windows 2000/XP/Server 2003/Vista computer that belongs to a domain containing Windows 2000/Server 2003/Vista domain controllers.

Samba (UNIX/Linux/Mac OS X)

Samba 2.2.8a or later is supported.

In some environments, detailed settings may be required in order to use the Samba. For details, consult your network administrator.

1 Set up the users who access the Samba shared folder, and their passwords.

Set a user name not longer than 20 alphanumeric characters, and a password not longer than 14 alphanumeric characters.

● UNIX/Linux:

☐ Log in to a workstation as a superuser, and set the user name and password.

● Mac OS X:

☐ See the documentation provided with your Macintosh to set the user name and password.

2 Set a recipient address using the control panel.

There are three methods for specifying the recipient address; selecting the desired address from the list that appears when you press [Browse], searching for the address by pressing [Host Search], or entering the address using the keyboard on the touch panel display.

Sample recipient setting:

- Server side settings:

  [Computer name]: swan

  [Share Name]: share

  Create a folder called 'Images' within share, and then specify Images as the recipient for sending.

- The machine's recipient settings:

  <Protocol>: Windows (SMB)

  [Host Name]: \\swan\share (Shared folder path)

  [Folder Path]: \Images

  [User]: User name entered in the above step.

  [Password]: Password for the above user.

For a sample screen, see the example of Windows 2000/XP/Server 2003/Vista screen (see p. 7-7).

IMPORTANT

- *If you use [Browse] to specify each item, press [Browse] after the expiration of the time specified in see "Startup Time Settings," on p. 5-29.*
- *Up to 128 alphanumeric characters can be entered for [Host Name] on the control panel. Also, up to 255 alphanumeric characters can be entered for [Folder Path].*
- *If you change the language of the touch panel display, [Host Name] and [Folder Path] may not be displayed correctly, or you may not be able to browse the directories.*
- *If the language of the touch panel display differs from the computer used as a master browser, [Host name] and [Folder path] may not be displayed correctly, or you may not be able to browse the directories.*

NOTE

- *You can send data using the following formats. A DNS server is required for the latter case.*
  \\192.168.2.100\share
  \\host_name.organization.company.com\share
- *You can also specify the user name in the address using the following format.*
  - *domain_name\user_name (up to 15 alphanumeric characters for the domain name, and up to 20 for the user name)*

Using an AppleTalk Network (Macintosh)

8
CHAPTER

This chapter describes settings and procedures for printing via an AppleTalk network.

AppleTalk Network Setup Procedures 8-2
Protocol Settings 8-3

AppleTalk Network Setup Procedures

To print via an AppleTalk network, it is necessary to perform the following procedures.

1 **Macintosh Network Settings**

To specify AppleTalk network settings, enable AppleTalk according to the instructions in the documentation provided with your Macintosh.

2 **Protocol Settings (See "Protocol Settings," on p. 8-3.)**

Specify the protocol settings. To specify the settings, use:

- The machine's control panel
- The Remote UI (via a web browser)
- Canon utilities (NetSpot Device Installer, etc.)

3 **Macintosh Print Settings (See e-Manual > Network)**

Specify the settings for each computer you use for printing.

IMPORTANT

- *Depending on the machine you are using, you may have to use optional equipment to print via an AppleTalk network. For the equipment needed, see "Optional Equipment and System Requirements for Connecting to a Network," on p. 3-2.)*
- *It is recommended that the network administrator perform step 2.*

Protocol Settings

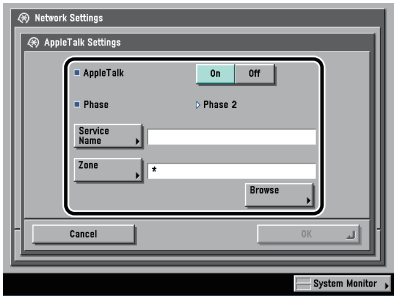
This section describes how to specify the protocol settings for the machine using the control panel. If you are configuring the settings for the first time, use the control panel of the machine.

After configuring the settings, you can change them using software other than the control panel of the machine. For details, see e-Manual > Network.

IMPORTANT

Depending on the machine you are using, you may have to use optional equipment to print via an AppleTalk network. For the equipment needed, see "Optional Equipment and System Requirements for Connecting to a Network," on p. 3-2.

1 On the Network Settings screen, press [AppleTalk Settings] → specify the following.



[On] for <AppleTalk>: You can use the AppleTalk network.

In [Service Name], enter a name for the printer not longer than 32 characters.
The name you enter here appears on the Macintosh screen.

If you are using a network that is set up in zones, enter the name of the zone in [Zone].

IMPORTANT

- *If there is more than one printer in the same zone, each printer must have a unique name.*
- *You can also enter a zone name by pressing [Browse] and selecting the appropriate name from the displayed list.*

Before Using the Fax Function

9
CHAPTER

This section describes the information you should know before using the Fax function of the machine, such as how to specify fax settings and how to register user information.

Fax Settings 9-2
- Setting the Display Language 9-4
- Selecting the Type of Telephone Line 9-4
- Setting the Current Date and Time 9-4
- Registering Your Machine's Fax Number 9-6
- Registering Sender Names 9-7
- Registering the Unit's Name 9-8

Fax Settings

This section describes the important setting registrations and procedures that must be done before the machine is used for sending operations.

According to recent amendments to the FCC (Federal Communications Commission) rules governing the use of facsimile equipment in the United States, the following sender information must be printed on every facsimile transmission:

- Your fax number
- Your personal name or company name
- Time and date of transmission

IMPORTANT

If you attempt to use the machine without registering the necessary information correctly, the machine may not function properly.

NOTE

A fax board is required to send faxes.

■ Setting the Telephone Line Type

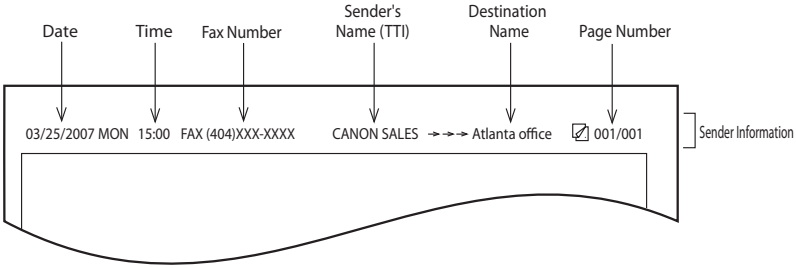
To set the type of telephone line connected to the machine with the optional fax board installed, check whether it is a rotary dial (rotary pulse) or a touch-tone type and make the correct setting. (See e-Manual > Send/Fax.)

If you have added an additional line to the machine, perform the same registration procedure for the additional lines, too. (See e-Manual > Send/Fax.)

■ Registering the Sending Record

The sending record is printed at the top of every document you send via fax to the recipient.

The registered information is printed, as shown below. Depending upon the model of the machine at the receiving side, this information may appear on the display while communication is taking place.



- Date and Time
  - The date and time of the transmission are recorded.
- Fax Number
  - Your machine's fax number is recorded.
- Sender's Name (TTI (Transmit Terminal Identification))
  - The name registered as the sender's name is recorded.
- Destination Name
  - If you send an original and select a destination from the Address Book, the stored destination's name appears on the sending record. (See e-Manual > Send/Fax.)
- Page Number
  - The current page number out of the total number of pages of the original is recorded.

NOTE

- *You can set the machine so that the sending record is not printed. However, for users in the United States, this information must be printed at the top of every fax or I-fax document that you send. Therefore, TX Terminal ID in TX Settings under <Common Settings> in Communications Settings (from the Additional Functions screen) must always be set to 'On'. (See e-Manual > Send/Fax.)*
- *If the machine is set so that the sending record is printed at the top of the recording paper, and not all of the items are registered, only the required registered items and the total number of original pages are printed.*
- *To print the destination's name on the recipient's paper, set Display Destination Name in TX Terminal ID in TX Settings under <Common Settings> in Communications Settings (from the Additional Functions screen) to 'On'.*
- *You can select the login user's name as the sender's name if a MEAP login service is being used. (The login name is displayed in <99> of Sender's Names (TTI).) For more information on the MEAP login service, see e-Manual > MEAP/SSO.*

Setting the Display Language

If you decide to switch the display language, set Language Switch to 'On' before entering characters.

If Language Switch is set to 'Off', and then you set it to 'On' after entering characters, the characters may not be displayed correctly. In this case, either re-enter the characters after setting Language Switch to 'On', or enter characters with Language Switch set to 'Off'.

If Language Switch is set to 'On', some characters are restricted and cannot be entered. (See e-Manual > Additional Functions.)

Selecting the Type of Telephone Line

Set the type of telephone line that is connected to the machine.

If this setting is incorrect, you will be unable to communicate with other machines. Be sure to check the type of telephone line that you are using, and make the correct setting.

IMPORTANT

The telephone line type you can select here is for line 1. To select the telephone line type for an additional line, see e-Manual > Send/Fax.

NOTE

For this setting, the optional fax board is required.

1 **Press (Additional Functions) → [Communications Settings] → [Line Options] under <Fax Settings> → [Line 1] → [Tel Line Type].**

2 **Select the type of telephone line → press [OK].**

If you do not know the telephone line type, call your telephone service provider for details.

Setting the Current Date and Time

You can set the current date and time. The current date and time settings are used as standard timer settings for functions that require them.

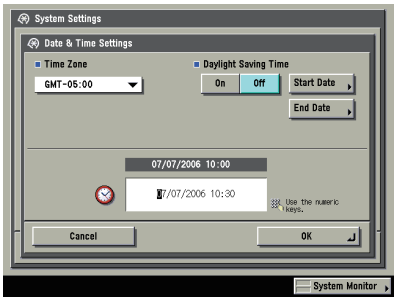
- GMT: GMT stands for Greenwich Mean Time.
- Time Zone: The standard time zones of the world are expressed globally in terms of the difference in hours (up to 12 hours) from GMT (0 hours). A time zone is a region throughout which this time difference is the same.
- Daylight Saving Time: In some countries, time is advanced throughout the summer season. The period in which this is applied is called "Daylight Saving Time."

NOTE

You can also specify to automatically synchronize the date and time with a server on the network from the Additional Functions screen. (See "TCP/IPv4 Settings," on p. 5-3.)

1 **Press (Additional Functions) → [System Settings] → [Date & Time Settings].**

2 **Enter the current date (month, day, year) and time using 0 - 9 (numeric keys).**



Enter the month and the day using four digits (including zeros).

Enter all four digits of the year, and the time in 24-hour notation, as four digits (including zeros) without a space.

Examples:	May 6	→	0506
	7:05 a.m.	→	0705
	11:18 p.m.	→	2318

● **If you are setting the Time Zone:**

☐ Press the Time Zone drop-down list → select the time zone where the machine is located.

● **If you are setting Daylight Saving Time:**

☐ Press [On] → [Start Date].

☐ Select the month and day from the Month and Day drop-down lists, respectively.

☐ Press [-] or [+] to enter the time of day you want Daylight Saving Time to take effect → press [OK].

☐ Press [End Date] → select the month, day, and time at which Daylight Saving Time ends → press [OK].

NOTE

If you set Daylight Saving Time, the machine automatically sets the standard time of the machine one hour forward at the specified date and time.

3 **Press [OK].**

Registering Your Machine's Fax Number

You must store your machine's fax number. This number is printed on the document that you fax to the receiving party.

The number may also be displayed on the touch panel display of the receiving party's machine, depending on their type of machine.

IMPORTANT

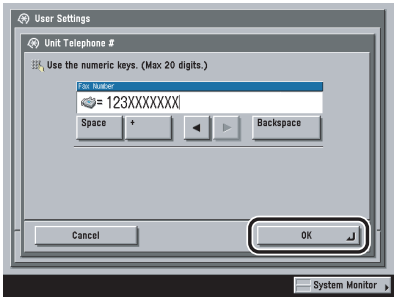
The phone number you can register here is for line 1. To register the phone number for an additional line, see e-Manual > Send/Fax.

NOTE

For this setting, the optional fax board is required.

1 **Press (Additional Functions) → [Communications Settings] → [Line Options] under <Fax Settings> → [Line 1] → [Unit Telephone #].**

2 **Enter the unit's telephone number using 0 - 9 (numeric keys) → press [OK].**



Details of each item are shown below.

[Space]:	Press to insert a space between the area code and the local fax number.
[+]:	Use to insert a country code. Press [+] after the country code, and before the fax number.
[◀][▶]:	Press to move the position of the cursor.
[Backspace]:	Press to delete the last number entered.

Registering Sender Names

For fax, you can register any name as the sender's name, such as the section or department's name, or an individual's name.

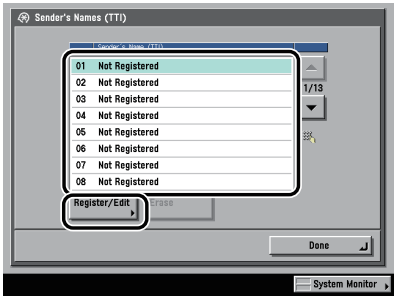
The registered sender's name can be displayed on the touch panel display of the receiving party's machine and/or printed at the top of the documents that you send as the sender's information.

NOTE

- *You can set to display and print the sender's name instead of the name stored as the unit's name with the Sender's Names setting from the Send Settings screen. (See e-Manual > Send/Fax.)*
- *For this setting, the optional fax board is required.*

1 **Press (Additional Functions) → [Communications Settings] → [Basic Settings] under <Common Settings> → [Sender's Names (TTI)].**

2 **Select the number under which you want to register the sender's name → press [Register/Edit].**



You can store up to 99 sender names (01 to 99).

To delete a stored sender's name, select the number under which the name is registered → press [Erase]. Only one sender name can be erased at a time.

If logging in using SSO-H, the login name is displayed in <99> of Sender's Names (TTI). In this case, you can register, edit, or delete the sender's name in <99>. For more information on the MEAP login service, see e-Manual > MEAP/SSO.

3 **Enter the sender's name → press [OK].**

Registering the Unit's Name

Your name or company's name must be registered as the unit's name (a department name is optional).

For example:

- Your name: John Smith
- Company name: Canon
- Company name and department: Canon-Accounting Dept.

The registered unit name can be displayed on the touch panel display of the receiving party's machine and/or printed at the top of the fax documents that you send as the sender's information. Some fax models also display sender information on the touch panel display during transmission.

NOTE

- *It is necessary to register a separate Unit Name if you have an additional line. See e-Manual > Send/Fax.*
- *If the optional fax board installed, the unit name can be printed in the TX Terminal ID.*

1 **Press (Additional Functions) → [Communications Settings] → [Line Options] under <Common Settings> → [Line 1] → [Unit Name].**

2 **Enter a name → press [OK].**

Before Printing from Computers

10
CHAPTER

To print from a computer, you must install the printer driver and set up the printer configuration using the printer driver.

Installing the Printer Driver 10-2
- System Requirements 10-2
- Selecting the Appropriate Printer Driver 10-3
- Installation 10-5

Setting Up the Printer Configuration 10-7
- For Windows 10-7
- For Mac 10-8

Other Software Programs 10-9

Installing the Printer Driver

The printer driver is software that is required to print from applications on your computer. The printer driver also enables you to configure settings relating to printing.

System Requirements

The following system environments are necessary in order to use the printer driver.

NOTE

Supported operating systems may differ according to the printer driver version you are using.

■ For Windows:

- Operating Systems:
  - Microsoft Windows 2000
  - Microsoft Windows XP
  - Microsoft Windows Server 2003
  - Microsoft Windows Vista
- Computer:
  - Any computer that runs the above systems
- Memory:
  - The amount of memory required to run the above systems correctly

■ For Mac:

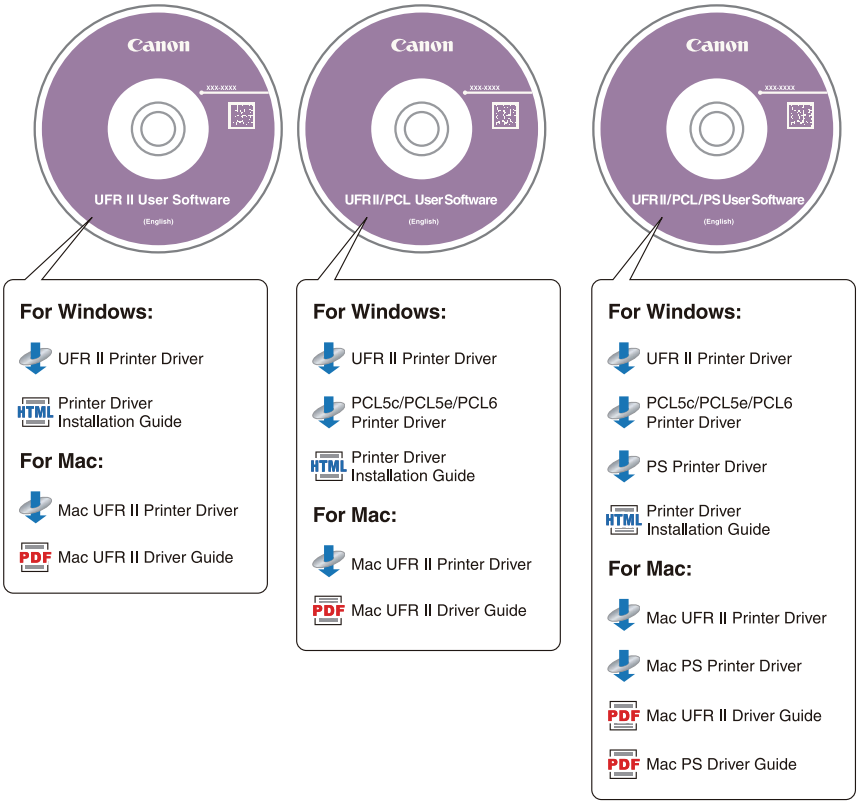
- Operating Systems:
  - Mac OS X 10.3.9 or later
- Computer:
  - Any computer that runs the above systems
- Memory:
  - The amount of memory required to run the above systems correctly

Selecting the Appropriate Printer Driver

The printer driver is installed from a User Software CD-ROM. If multiple CD-ROMs have been supplied, refer to the information below to select the appropriate CD-ROM and printer driver.

The CD-ROM supplied differs according to the product and system environment you are using.

■ Content of Each CD-ROM:



■ Features of the Printer Driver

UFR II Printer Driver:

Using the UFR II printer driver, the various data processing tasks conventionally executed within the printer are appropriately divided between the host PC and the printer to greatly reduce the overall printing time. The workload can be delegated to match the output data, thus realizing a significant increase in speed through optimization.

PCL Printer Driver:

The PCL5c, PCL5e, and PCL6 printer drivers can be used with most kinds of business application software. The PCL5c printer driver is for color printers, the PCL5e printer driver is for black-and-white printers, and the PCL6 printer driver is for both color and black-and-white printers. PCL6 is an advanced version of PCL5c and PCL5e, and offers superior printing quality and speed. The PCL5e printer driver is provided as standard with black-and-white printers.

PS Printer Driver:

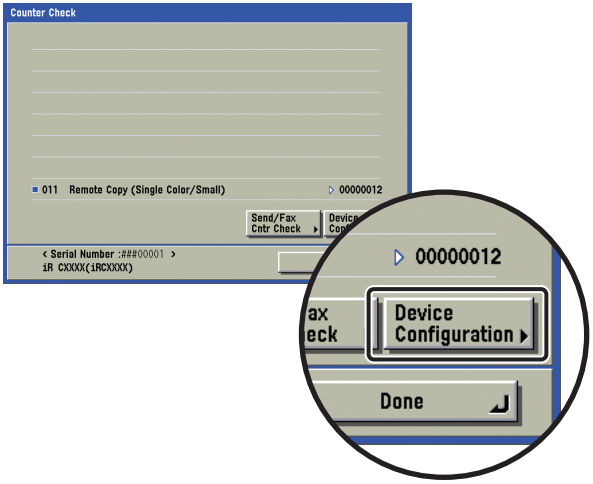
The PS printer driver converts print data from applications into data for use with PS printers, and sends it to the printer. As well as converting print data, it can also enable you to configure settings relating to finishing and detailed settings such as color adjustment, and provides an appropriate print environment for desktop publishing and publishing on demand.

IMPORTANT

You can confirm what printer driver(s) you can use by following the procedure below.

1. Press [123] (Counter Check) on the touch panel display.

2. In the Counter Check screen, press [Device Configuration].



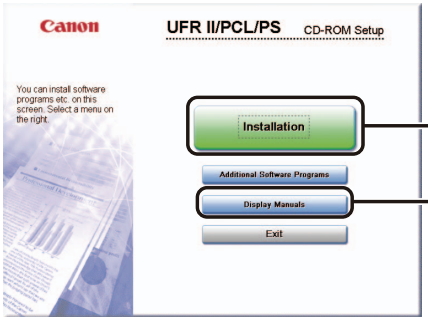
3. Confirm the printer driver name displayed under [Option].

Installation

For details about the installation procedure, refer to the "Printer Driver Installation Guide" if you are using Windows, or the "Mac UFR II Driver Guide" or "Mac PS Driver Guide" if you are using a Mac OS.

From the menu screen of the CD-ROM, you can begin installing the printer driver, or display the Printer Driver Installation Guide/Mac UFR II Driver Guide/ Mac PS Driver Guide.

■ CD-ROM Menu (Windows):



Click this button to install the printer driver.

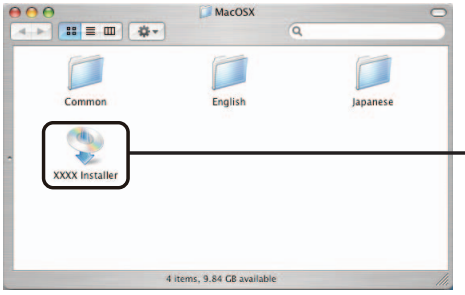
Click this button first.

Click this button to view the Printer Driver Installation Guide.

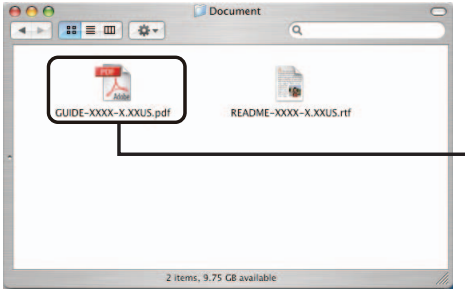
NOTE

You cannot view the Printer Driver Installation Guide after installation has started. If you want to view the Printer Driver Installation Guide, do so before you start the installation.

■ Starting Installation and Viewing the Driver Guide (Mac):



Double-click the installer icon in the installation set folder to start the installation.



Double-click the PDF icon in the installation set folder to view the driver guide.

Setting Up the Printer Configuration

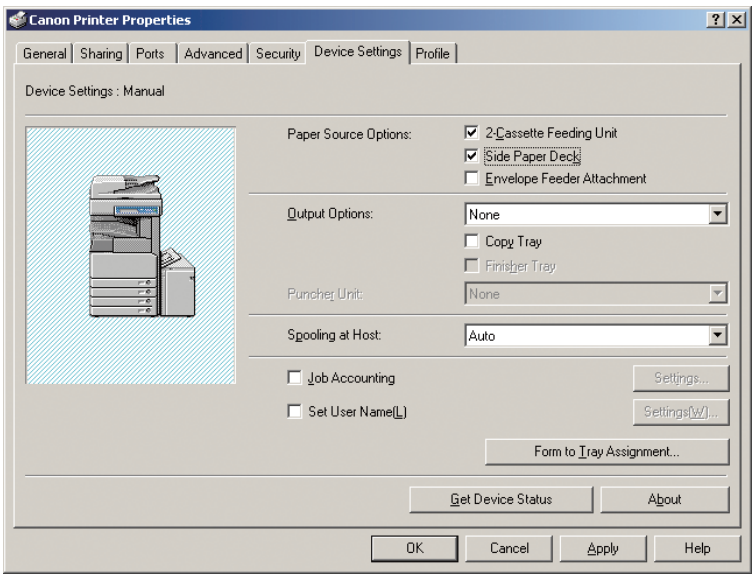
To correctly use the functions of this product, you must set the printer options using the printer driver.

For Windows

Printer options are set from the [Device Settings] sheet of the printer driver.

The [Device Settings] sheet is displayed by right-clicking the printer you are using in the [Printers] or [Printers and Faxes] folder and selecting [Properties].

See the Printer Driver Installation Guide or the online help for details about the installation procedure.



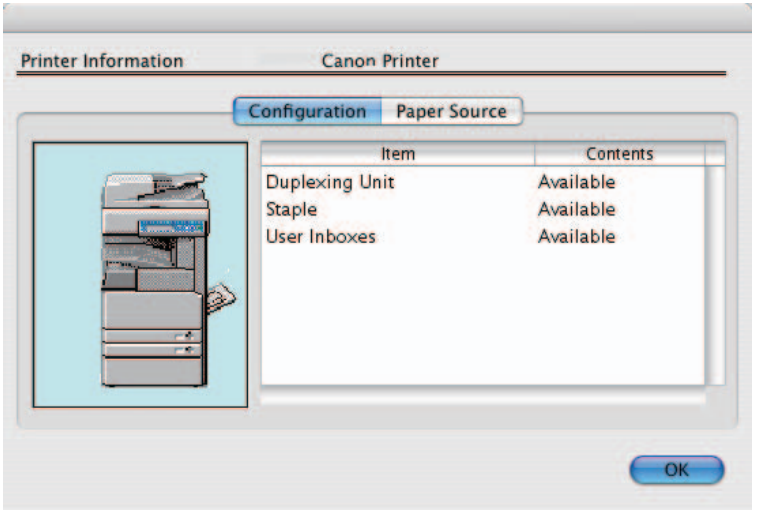
Click [Get Device Status] to obtain information about options installed and set in the device.

If you cannot obtain the device status, set up the configuration you want to use manually by clicking the appropriate check boxes or selecting the appropriate items from lists.

If you are using the printer as a shared printer, and have installed "Canon Driver Information Assist Service" in the print server, you can use the [Get Device Status] function. For details about the "Canon Driver Information Assist Service" installation procedure, see the Printer Driver Installation Guide.

For Mac

Display the [Printer Information] dialog box of the printer driver to obtain the device status.



The [Printer Information] dialog box is displayed by clicking [Printer Info] in any of the preferences panes of the printer driver.

NOTE

Depending on the type and version of the printer driver and the printer connection method, you may have to set the printer options manually. For details, see the Online Manual (PDF).

Other Software Programs

The following software programs are included on the User Software CD-ROM. Available software programs vary depending on the system configuration.

■ NetSpot Device Installer

Use this software to specify the initial settings for various devices connected to a network from your computer. For information on installing the software, see the Readme file located in the following folders.

Windows:	\NetSpot_Device_Installer\usa\Windows
Mac:	\NetSpot_Device_Installer\usa\MacOSX

NOTE

- *You can install the NetSpot Device Installer for Windows from the CD-ROM menu. Click [Additional Software Programs] on the menu screen to start the installation.*
- *For Mac OS X, double-click the NetSpot_Device_Installer icon, which is created after decompressing the .dmg file, to access the Readme file.*
- *This software is not available for OS 9 and earlier.*

■ Canon Font Manager (Windows)

Use this software to manage fonts and view them accurately in Windows. Double-click [Canonfm] → the [Setup.exe] icon to install the software. For more information, see the Readme.txt file located in \Canonfm\program files\Canon\Font Manager\English.

NOTE

This software is only available on the UFR II/PCL or UFR II/PCL/PS User Software CD-ROM.

■ JBIG Image Viewer

Use this software to view image files in the JBIG format on your web browser. For information on installing the software, see the Readme.txt file located in the following folders.

Windows:	\Jbig\English
Mac OS 8/9:	\JBIG\english\JBIG_Image_Viewer_MacOS8_9
Mac OS X:	\JBIG\english\JBIG_Image_Viewer_MacOSX

■ NDPS Gateway (Windows)

Use this software to monitor printers and job status in the NDPS (Novell Distributed Print Services) architecture. The link to Canon NetSpot Accountant makes it possible to also pass statistics for print jobs processed through NetSpot Accountant. For information on installing the software, see the Canon NDPS Gateway Users Guide (Users Guide Eng.pdf) located in \Ndps_gw.

■ PPD file

Use the PPD (PostScript Printer Description) file to print from QuarkXPress and PageMaker with the PS Printer Driver.

For information on installing the PPD file see the following documents.

Windows:	Printer Driver Installation Guide
Mac OS 8/9:	USReadme.pdf located in \PS_PPD\us_eng
Mac OS X:	Mac_PPD_Guide_ENG.pdf located in \PS_PPD\us_eng\MacOSX

NOTE

This software is only available on the UFR II/PCL/PS User Software CD-ROM.

■ PS Screen Fonts (Macintosh)

Use these PostScript fonts to accurately display the fonts on your screen that will be printed. The font files are located in the Fonts_Roman folder. Copy the font file you want to install into the system folder on your Macintosh.

NOTE

This software is only available on the UFR II/PCL/PS User Software CD-ROM.

Before Sending Faxes from Computers

11
CHAPTER

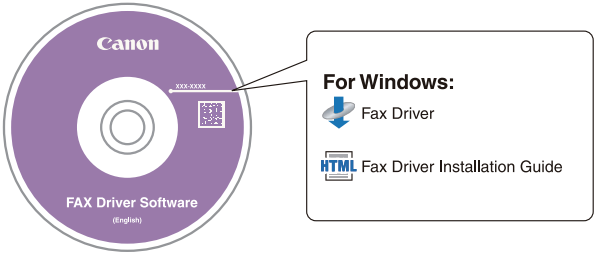
In order to send a fax, you must install the fax driver and set up the fax configuration using the fax driver.

Installing the Fax Driver 11-2
System Requirements 11-2
Installation 11-3
Setting Up the Fax Configuration 11-4
For Windows 11-4

Installing the Fax Driver

The fax driver is software that is required to send faxes from applications on your computer. The fax driver also enables you to configure settings relating to fax transmission.

Install the fax driver from the FAX Driver Software CD-ROM. The contents of the CD-ROM are as follows.



System Requirements

The following system environments are necessary in order to use the fax driver.

■ For Windows:

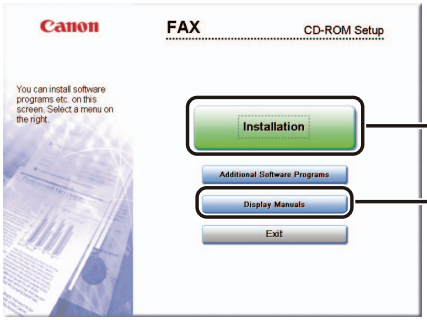
- Operating Systems:
  - Microsoft Windows 2000
  - Microsoft Windows XP
  - Microsoft Windows Server 2003
  - Microsoft Windows Vista
- Computer:
  - Any computer that runs the above systems
- Memory:
  - The amount of memory required to run the above systems correctly

Installation

For details about the installation procedure, refer to the "Fax Driver Installation Guide" if you are using Windows.

From the menu screen of the CD-ROM, you can begin installing the fax driver, or display the Fax Driver Installation Guide.

■ CD-ROM Menu (Windows):


Canon
FAX
CD-ROM Setup
You can install software programs etc. on this screen. Select a menu on the right.
Installation
Additional Software Programs
Display Manuals
Exit
Click this button to install the fax driver.
Click this button first.
Click this button to view the Fax Driver Installation Guide.

NOTE

You cannot view the Fax Driver Installation Guide after installation has started. If you want to view the Fax Driver Installation Guide, do so before you start the installation.

Setting Up the Fax Configuration

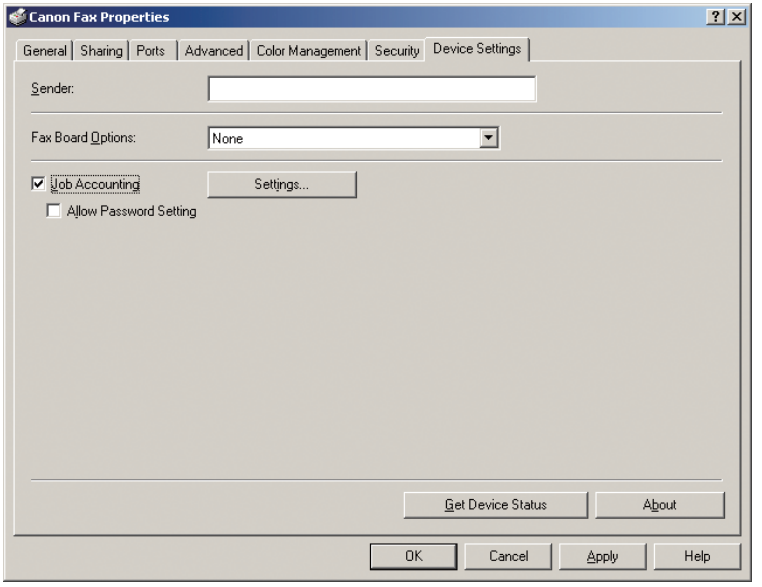
To correctly use the functions of this product, you must set the fax options using the fax driver.

For Windows

Fax options are set from the [Device Settings] sheet of the fax driver.

The [Device Settings] sheet is displayed by right-clicking the printer you are using in the [Printers] or [Printers and Faxes] folder and selecting [Properties].

See the Fax Driver Installation Guide or the online help for details about the installation procedure.



Click [Get Device Status] to obtain information about options installed and set in the device.

If you cannot obtain the device status, set up the configuration you want to use manually by clicking the appropriate check boxes or selecting the appropriate items from lists.

If you are using the fax as a shared fax, and have installed "Canon Driver Information Assist Service" in the print server, you can use the [Get Device Status] function. For details about the "Canon Driver Information Assist Service" installation procedure, see the Fax Driver Installation Guide.

Before Using the Remote Scan Function

12
CHAPTER

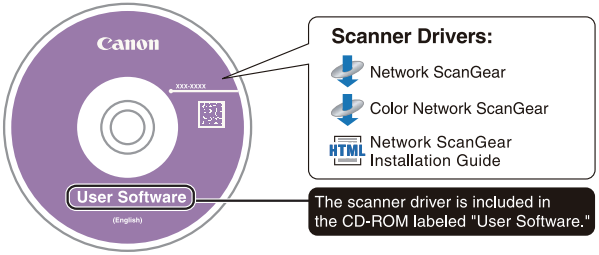
In order to use this product as a network scanner, you must install the scanner driver.

Installing the Scanner Driver 12-2
System Requirements 12-3
Installation 12-4
Settings Required Prior to Remote Scanning 12-5

Installing the Scanner Driver

The scanner driver is a driver for using digital multi-purpose printers on a network as scanners. Settings relating to scanning are made using the scanner driver.

The scanner driver is installed from the same User Software CD-ROM as the printer driver. The contents of the CD-ROM are as follows.



■ Network ScanGear/Color Network ScanGear

These are scanner drivers that are called from TWAIN-compatible applications. Originals are scanned using these drivers.

Examples of applications that support TWAIN include the following.
- Adobe Photoshop
- Adobe Acrobat
- Microsoft Word/Excel/PowerPoint etc. in Office 2000 or later

System Requirements

The following system environments are necessary in order to use the scanner driver.

■ Software:

- Operating Systems:
  - Microsoft Windows 98
  - Microsoft Windows Millennium Edition
  - Microsoft Windows 2000
  - Microsoft Windows XP (32bit)
  - Microsoft Windows Server 2003 (32bit)
  - Microsoft Windows Vista (32bit)
- Application Software:
  - TWAIN-compatible applications (Adobe Photoshop, Adobe Acrobat, Microsoft Word/Excel/ PowerPoint etc. in Office 2000 or later)

■ Hardware:

- Computer
  - Any computer that can run the supported systems
- Hard disk space
  - When installing: 100MB or more (recommended)
  - When scanning: two or more times the amount of image data being scanned
- Main memory (Color Network ScanGear)
  - For Windows 98/Me: 64MB or more (96MB or more recommended)
  - For Windows 2000: 96MB or more (128MB or more recommended)
  - For Windows XP: 128MB or more (192MB or more recommended)
  - For Windows Server 2003: 128MB or more (256MB or more recommended)
  - For Windows Vista: 512MB or more (1GB or more recommended)
- Main memory (Network ScanGear)
  - For Windows 98/Me: 16MB or more (32MB or more recommended)
  - For Windows 2000: 32MB or more (48MB or more recommended)
  - For Windows XP: 96MB or more (128MB or more recommended)
  - For Windows Server 2003: 128MB or more (256MB or more recommended)
  - For Windows Vista: 512MB or more (1GB or more recommended)
- A display with a resolution of at least 640 x 480 (800 x 600 or more recommended) and capable of displaying at least 256 colors.
- A network host adapter capable TCP/IP and UDP/IP communication on an Ethernet network.

NOTE

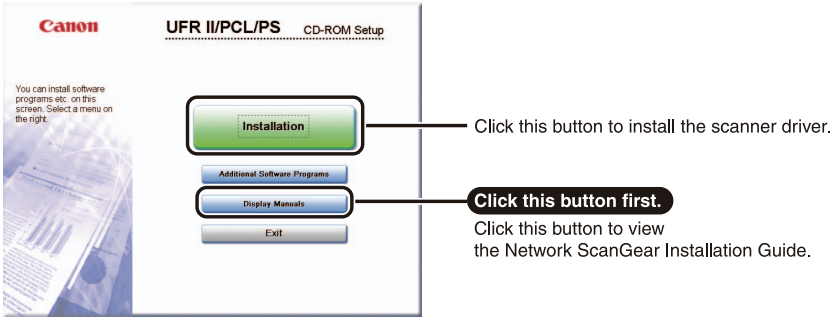
When scanning large numbers of images or images containing large amounts of image data, an insufficient memory error or notable loss of scanning speed may occur. If this happens, the following procedures should prove useful.

- *Increase the amount of hard disk space by deleting or otherwise appropriately processing unnecessary files on the hard disk etc. to ensure sufficient hard disk space.*
- *Rescan with reduced resolution.*
- *Increase the amount of RAM.*
- *Increase the amount of virtual memory to the highest possible.*

Installation

For details about the installation procedure, refer to the "Network ScanGear Installation Guide".

From the menu screen of the CD-ROM, you can begin installing the scanner driver, or display the Network ScanGear Installation Guide.


Canon
UFR II/PCL/PS CD-ROM Setup
You can install software programs etc. on this screen. Select a menu on the right.
Installation
Additional Software Programs
Display Manuals
Exit
Click this button to install the scanner driver.
Click this button first.
Click this button to view the Network ScanGear Installation Guide.

NOTE

You cannot view the Network ScanGear Installation Guide after installation has started. If you want to view the Network ScanGear Installation Guide, do so before you start the installation.

Settings Required Prior to Remote Scanning

Once you have installed the scanner driver, the following settings are required in order to perform remote scanning.

For details about this procedure, see e-Manual > Software or the online help.

■ Switching the Scanner Online and Offline

In order to start the scanner driver and scan, the scanner must be set to [Online] beforehand at the device.

When the scanner is online, communication with devices connected over a network is possible and the scanner can receive data from computers.

■ Selecting the Network Scanner You Want to Use

In order to scan using Network ScanGear or Color Network ScanGear, select the device on the network that you want to use as a scanner using the ScanGear Tool. Because a scanner is not selected immediately after installation, this operation must be performed before use.

NOTE

The ScanGear Tool is software that is installed together Network ScanGear/Color Network ScanGear.

Managing the Machine from a Computer

13
CHAPTER

This section describes the system requirements and preparations required for starting the Remote UI and SMS, which are used to manage the machine from a computer.

System Requirements for Using the Remote UI 13-2

Before You Start the Remote UI 13-3
Enabling the Remote UI 13-4

System Requirements for Using SMS 13-6

Before Starting SMS (Preparations) 13-7
Enabling the Machine to be Accessed from Web Browsers 13-7

System Requirements for Using the Remote UI

The system requirements for the Remote UI are as follows:

■ Windows

Operating System Software	Web Browsers
Microsoft Windows 2000 Professional Microsoft Windows XP Microsoft Windows Vista	Microsoft Internet Explorer 6, or later

■ Macintosh

Operating System Software	Web Browsers
Mac OS 10.3, or later	Safari 1.3.2, or later

IMPORTANT

- *Available browsers may be limited depending on the login services for the MEAP function you are using. For instructions on how to use the login services, see e-Manual > MEAP/SSO.*
- *The appearance of the Remote UI screens may vary, depending on the type and version of the Web browser that you are using.*
- *This machine is compliant with IPv6 addresses. To access IPv6 addresses, your environment must be compliant with IPv6.*

NOTE

Apart from those mentioned above, no other software, such as a web server, is necessary. (There already is a web server inside the machine.)

Before You Start the Remote UI

Before you start the Remote UI, perform the following:

■ Specify the Network Settings

Specify the settings under Network Settings in System Settings (from the Additional Functions screen) and find out the machine's IP address. If you do not know the machine's IP address, consult your network administrator. (See "Protocol Settings," on p. 5-3.)

■ MEAP Settings

Set Use HTTP in MEAP Settings in System Settings (from the Additional Functions screen) to 'On'. (See p. 13-7.) If you are using a default authentication, you do not need to set Use HTTP to 'On'.

■ Enable the Remote UI

Set Remote UI in System Settings (from the Additional Functions screen) to 'On'. It is also recommended that Device Information Settings in System Settings is configured.

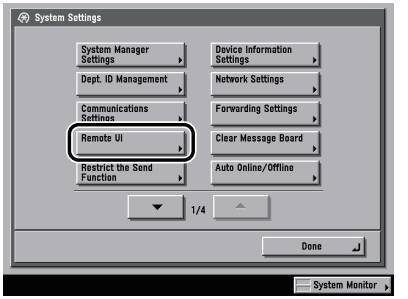
IMPORTANT

- *Connection via a proxy server is not possible. If your system environment has a proxy server, perform the following setting. (Settings vary according to the system environment, consult your network administrator.)*
  - *Enter the IP address of the machine into Exceptions in the web browser proxy server settings.*
- *You must set your web browser to enable all cookies and use JavaScript. Otherwise, you will not be able to change the machine's settings using the Remote UI.*
- *If the control panel of the machine is being used for a particular operation, you cannot perform the same operation using the Remote UI.*
- *If multiple Remote UIs are running simultaneously, the latest setting that was made is enabled. It is recommended that only one Remote UI be running at a time.*
- *To enter characters from a web browser, use the characters that you can enter from the touch panel display of the machine. If you use the other characters, they may not be displayed/recognized properly on the machine.*
- *If you are using the login services for the MEAP function, the IP address "127.0.0.1" must be allowed, in addition to the IP address of the computer used to start the Web browser.*
- *In addition, if you are accessing IPv6 addresses, the above address must be activated.*

Enabling the Remote UI

You must use the machine's control panel to enable the Remote UI.

1 Press (Additional Functions) → [System Settings] → [Remote UI].



If the System Manager ID and System Password have already been set, enter the System Manager ID and System Password using 0 - 9 (numeric keys) → press ID (Log In/Out).

NOTE

If the desired setting is not displayed, press [▼] or [▲] to scroll to the desired setting.

2 Select [On] → select whether to use SSL.

Select [Off] to disable the Remote UI.

<Use SSL>:

[On]: Allows secured transmission using SSL.
[Off]: Prohibits secured transmission using SSL.

NOTE

Any changes made to <Use SSL> are also applied to <Use SSL> in <Use HTTP> in MEAP Settings in System Settings (from the Additional Functions screen).

3 Press [Done] repeatedly until the Basic Features screen appears.

4 **Turn OFF the main power of the machine, wait 10 seconds, and then turn ON the main power.**

IMPORTANT

The [Remote UI] setting is made effective only after turning the machine's main power OFF, and then ON.

NOTE

For information on how to turn ON and OFF the main power of the machine, see Chapter 1, "Before You Start Using This Machine," in Troubleshooting.

System Requirements for Using SMS

SMS can be used in the following system environments:

■ Operating System/Web Browsers

Operating System Software	Web Browsers
Windows 2000 Professional	Microsoft Internet Explorer 6 SP1
Windows XP Professional	Microsoft Internet Explorer 6 SP1 Microsoft Internet Explorer 6 SP2 Microsoft Internet Explorer 7
Windows Server 2003 Windows Server 2003 R2	Microsoft Internet Explorer 6 SP1 Microsoft Internet Explorer 6 SP2 Microsoft Internet Explorer 7
Windows Vista	Microsoft Internet Explorer 7
Mac OS X 10.3	Safari 1.3.2
Mac OS X 10.4	Safari 2.0.4

IMPORTANT

Your browser requires the following settings:
- *JavaScript should be enabled.*
- *Cookies should be enabled for each session.*

NOTE

- *No web server or software other than that described above is required (a web server is included in the supported machine).*
- *MEAP login services are already installed in the machine, and do not require you to use SMS. For information on using MEAP login services, see e-Manual > MEAP/SSO.*

Before Starting SMS (Preparations)

Before logging in to the SMS, start the machine and follow the procedure below:

■ Network Settings

Specify [Network Settings] in [System Settings] (from the Additional Functions screen).
Confirm the IP address of the machine. If you do not know the IP address of the machine, consult the network administrator. (See "Protocol Settings," on p. 5-3.)

■ Set Use HTTP to 'On' in MEAP Settings

Select [MEAP Settings] from [System Settings] and set [Use HTTP] to 'On'. If you do not set [Use HTTP] to 'On', you cannot access the machine from your web browser.

IMPORTANT

- *You cannot connect to the machine via a proxy server. Specify the following settings if you are working in an environment using a proxy server (as these settings differ depending on the network environment, consult the network administrator).*
  - *In the proxy server settings of your web browser, add the IP address of the machine to the [Exceptions] (addresses that do not use a proxy) list.*
- *You cannot use SMS if your web browser is not set to enable cookies and JavaScript.*
- *When entering characters from your web browser, use characters that can be entered from the touch panel display of the machine. Otherwise, the characters may not be displayed or recognized correctly on the touch panel display.*

Enabling the Machine to be Accessed from Web Browsers

Use to access the machine from a Web browser to use the MEAP function.

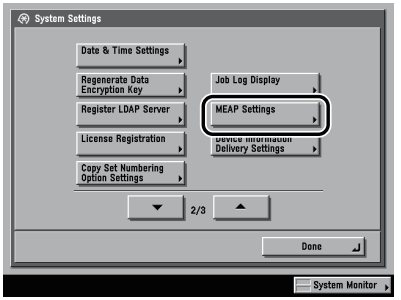
IMPORTANT

The default setting is 'On'.

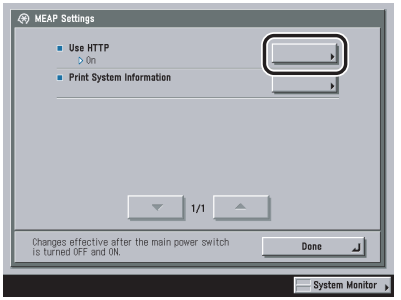
1 **Press (Additional Functions) → [System Settings].**

If the Department ID and Password are set, press [System Settings] enter the Department ID and password → press (Log In/Out).

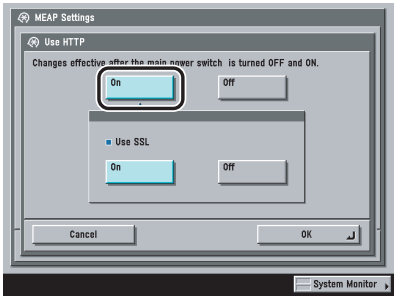
2 Press [▼] or [▲] until [MEAP Settings] appears → press [MEAP Settings].



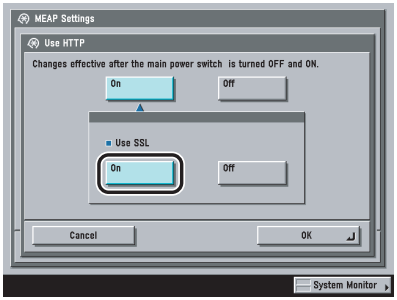
3 Press [Use HTTP].



4 Press [On].



5 Select [On] or [Off] for <Use SSL>.



[On]: Uses SSL (Secure Socket Layer) to communicate.

[Off]: SSL is not used to communicate.

NOTE

- *Any changes made to <Use SSL> in <Use HTTP> in MEAP Settings are also applied to <Use SSL> in Remote UI in System Settings (from the Additional Functions screen).*
- *To set <Use SSL> to 'On', it is necessary to set the key pair and server certificate necessary for performing Encrypted SSL communications in Certificate Settings in TCP/IP Settings (from the Additional Functions screen). For information on generating the key pair for SSL, see e-Manual > Network.*

6 Press [OK].

The selected mode is set.

7 Press [Done] repeatedly until the Basic Features screen appears.

8 Turn the main power of the machine OFF, wait 10 seconds, and then turn the power ON.

IMPORTANT

The HTTP setting is activated only after the machine is restarted. For instructions on how to turn ON/OFF the machine, see Chapter 1, "Before You Start Using This Machine," in Troubleshooting.

Appendix

14
CHAPTER

This section includes the index.

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Canon

CANON INC.
30-2, Shimomaruko 3-chome, Ohta-ku, Tokyo 146-8501, Japan
CANON U.S.A., INC.
One Canon Plaza, Lake Success, NY 11042, U.S.A.
CANON CANADA INC.
6390 Dixie Road Mississauga, Ontario L5T 1P7, Canada
CANON EUROPA N.V.
Bovenkerkerweg 59-61 1185 XB Amstelveen, The Netherlands
(See http://www.canon-europe.com/ for details on your regional dealer)
CANON LATIN AMERICA, INC.
703 Waterford Way Suite 400 Miami, Florida 33126 U.S.A.
CANON AUSTRALIA PTY. LTD
1 Thomas Holt Drive, North Ryde, Sydney, N.S.W. 2113, Australia
CANON CHINA CO., LTD
15F Jinbao Building No.89 Jinbao Street, Dongcheng District, Beijing 100005, China
CANON SINGAPORE PTE. LTD.
1 HarbourFront Avenue #04-01 Keppel Bay Tower, Singapore 098632
CANON HONGKONG CO., LTD
19/F., The Metropolis Tower, 10 Metropolis Drive, Hunghom, Kowloon, Hong Kong

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